



Service Authorization Reference

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## **Service Authorization Reference: Service Authorization Reference**

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# Reference

The *Service Authorization Reference* provides a list of the actions, resources, and condition keys that are supported by each AWS service. You can specify actions, resources, and condition keys in AWS Identity and Access Management (IAM) policies to manage access to AWS resources.

## Contents

- [Actions, resources, and condition keys for AWS services](#)
- [Related resources](#)

## Actions, resources, and condition keys for AWS services

Each AWS service can define actions, resources, and condition context keys for use in IAM policies. This topic describes how the elements provided for each service are documented.

Each topic consists of tables that provide the list of available actions, resources, and condition keys.

### The actions table

The **Actions** table lists all the actions that you can use in an IAM policy statement's `Action` element. Not all API operations that are defined by a service can be used as an action in an IAM policy. Some services include permission-only actions that don't directly correspond to an API operation. These actions are indicated with **[permission only]**. Use this list to determine which actions you can use in an IAM policy. For more information about the `Action`, `Resource`, or `Condition` elements, see [IAM JSON policy elements reference](#). The **Actions** and **Description** table columns are self-descriptive.

- The **Access level** column describes how the action is classified (List, Read, Write, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Understanding access level summaries within policy summaries](#).
- The **Resource types** column indicates whether the action supports resource-level permissions. If the column is empty, then the action does not support resource-level permissions and you must specify all resources ("\*") in your policy. If the column includes a resource type, then you can specify the resource ARN in the `Resource` element of your policy. For more information about that resource, refer to that row in the **Resource types** table. All actions and resources that are

included in one statement must be compatible with each other. If you specify a resource that is not valid for the action, any request to use that action fails, and the statement's Effect does not apply.

Required resources are indicated in the table with an asterisk (\*). If you specify a resource-level permission ARN in a statement using this action, then it must be of this type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one but not the other.

- The **Condition keys** column includes keys that you can specify in a policy statement's Condition element. Condition keys might be supported with an action, or with an action and a specific resource. Pay close attention to whether the key is in the same row as a specific resource type. This table does not include global condition keys that are available for any action or under unrelated circumstances. For more information about global condition keys, see [AWS global condition context keys](#).
- The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

Dependent actions are not required in all scenarios. Refer to the individual service's documentation for more information about providing granular permissions to users.

## The resource types table

The **Resource types** table lists all the resource types that you can specify as an ARN in the Resource policy element. Not every resource type can be specified with every action. Some resource types work with only certain actions. If you specify a resource type in a statement with an action that does not support that resource type, then the statement doesn't allow access. For more information about the Resource element, see [IAM JSON policy elements: Resource](#).

- The **ARN** column specifies the Amazon Resource Name (ARN) format that you must use to reference resources of this type. The portions that are preceded by a \$ must be replaced by the actual values for your scenario. For example, if you see \$user-name in an ARN, you must replace that string with either the actual user's name or a [policy variable](#) that contains a user's name. For more information about ARNs, see [IAM ARNs](#).



- The **Condition keys** column specifies condition context keys that you can include in an IAM policy statement only when both this resource and a supporting action from the table above are included in the statement.

## The condition keys table

The **condition keys** table lists all of the condition context keys that you can use in an IAM policy statement's `Condition` element. Not every key can be specified with every action or resource. Certain keys only work with certain types of actions and resources. For more information about the `Condition` element, see [IAM JSON policy elements: Condition](#).

- The **Type** column specifies the data type of the condition key. This data type determines which [condition operators](#) you can use to compare values in the request with the values in the policy statement. You must use an operator that is appropriate for the data type. If you use an incorrect operator, then the match always fails and the policy statement never applies.

If the **Type** column specifies a "List of ..." one of the simple types, then you can use [multiple keys and values](#) in your policies. Do this using condition set prefixes with your operators. Use the `ForAllValues` prefix to specify that **all** values in the request must match a value in the policy statement. Use the `ForAnyValue` prefix to specify that **at least one** value in the request matches one of the values in the policy statement.

### Topics

- [Actions, resources, and condition keys for AWS Account Management](#)
- [Actions, resources, and condition keys for AWS Action Recommendations](#)
- [Actions, resources, and condition keys for AWS Activate](#)
- [Actions, resources, and condition keys for Amazon AI Operations](#)
- [Actions, resources, and condition keys for Alexa for Business](#)
- [Actions, resources, and condition keys for AmazonMediaImport](#)
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## Actions, resources, and condition keys for AWS Account Management

AWS Account Management (service prefix: account) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Account Management](#)
- [Resource types defined by AWS Account Management](#)
- [Condition keys for AWS Account Management](#)

## Actions defined by AWS Account Management

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptPrimaryEmailUpdate</a>	Grants permission to accept the process to update the primary email address of an account	Write	<a href="#">accountInOrganization</a>		
				<a href="#">account:EmailTargetDomain</a>	
<a href="#">CloseAccount</a> [permission only]	Grants permission to close an account	Write	<a href="#">account</a>		
<a href="#">DeleteAlternateContact</a>	Grants permission to delete the alternate contacts for an account	Write	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
				<a href="#">account:AlternateContactTypes</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableRegion</a>	Grants permission to disable use of a Region	Write	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
				<a href="#">account:TargetRegion</a>	
<a href="#">EnableRegion</a>	Grants permission to enable use of a Region	Write	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
				<a href="#">account:TargetRegion</a>	
<a href="#">GetAccountInformation</a>	Grants permission to retrieve the account information for an account	Read	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
<a href="#">GetAlternateContact</a>	Grants permission to retrieve the alternate contacts for an account	Read	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">account:AlternateContactTypes</a>	
<a href="#">GetContactInformation</a>	Grants permission to retrieve the primary contact information for an account	Read	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
<a href="#">GetGovCloudAccountInformation</a>	Grants permission to retrieve the linked GovCloud account information for an account	Read	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
<a href="#">GetPrimaryEmail</a>	Grants permission to retrieve the primary email address of an account	Read	<a href="#">accountInOrganization</a>		
<a href="#">GetRegionOptStatus</a>	Grants permission to get the opt-in status of a Region	Read	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
				<a href="#">account:TargetRegion</a>	
<a href="#">ListRegions</a>	Grants permission to list the available Regions	List	<a href="#">account</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">accountInOrganization</a>		
<a href="#">PutAccountName</a>	Grants permission to update the name for an account	Write	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
<a href="#">PutAlternateContact</a>	Grants permission to modify the alternate contacts for an account	Write	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
				<a href="#">account:AlternateContactTypes</a>	
<a href="#">PutContactInformation</a>	Grants permission to update the primary contact information for an account	Write	<a href="#">account</a>		
			<a href="#">accountInOrganization</a>		
<a href="#">StartPrimaryEmailUpdate</a>	Grants permission to start the process to update the primary email address of an account	Write	<a href="#">accountInOrganization</a>		
				<a href="#">account:EmailTargetDomain</a>	

## Resource types defined by AWS Account Management

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">account</a>	arn:\${Partition}:account::\${Account}:account	
<a href="#">accountInOrganization</a>	arn:\${Partition}:account::\${ManagementAccountId}:account/o-\${OrganizationId}/\${MemberAccountId}	

## Condition keys for AWS Account Management

AWS Account Management defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">account:AccountResourceOrgPaths</a>	Filters access by the resource path for an account in an organization	ArrayOfString
<a href="#">account:AccountResourceTags</a>	Filters access by resource tags for an account in an organization	String

Condition keys	Description	Type
<a href="#">sourceOrgTags/\${TagKey}</a>		
<a href="#">account:AlternateContactTypes</a>	Filters access by alternate contact types	ArrayOfString
<a href="#">account:EmailTargetDomain</a>	Filters access by email domain of the target email address	String
<a href="#">account:TargetRegion</a>	Filters access by a list of Regions. Enables or disables all the Regions specified here	String

## Actions, resources, and condition keys for AWS Action Recommendations

AWS Action Recommendations (service prefix: `action-recommendations`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Action Recommendations](#)
- [Resource types defined by AWS Action Recommendations](#)
- [Condition keys for AWS Action Recommendations](#)



## Actions defined by AWS Action Recommendations

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecommendedActions</a>	Grants permission to list recommended actions in the AWS Management Console	List			

## Resource types defined by AWS Action Recommendations

AWS Action Recommendations does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Action Recommendations, specify "Resource": "\*" in your policy.

## Condition keys for AWS Action Recommendations

Action Recommendations has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Activate

AWS Activate (service prefix: activate) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Activate](#)
- [Resource types defined by AWS Activate](#)
- [Condition keys for AWS Activate](#)

## Actions defined by AWS Activate

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateForm</a>	Grants permission to submit an Activate application form	Write			
<a href="#">GetAccountContact</a>	Grants permission to get the AWS account contact information	Read			
<a href="#">GetContentInfo</a>	Grants permission to get Activate tech posts and offer information	Read			
<a href="#">GetCosts</a>	Grants permission to get the AWS cost information	Read			
<a href="#">GetCredits</a>	Grants permission to get the AWS credit information	Read			
<a href="#">GetMemberInfo</a>	Grants permission to get the Activate member information	Read			
<a href="#">GetProgram</a>	Grants permission to get an Activate program	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutMember Info</a>	Grants permission to create or update the Activate member information	Write			

## Resource types defined by AWS Activate

AWS Activate does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Activate, specify "Resource": "\*" in your policy.

## Condition keys for AWS Activate

Activate has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon AI Operations

Amazon AI Operations (service prefix: aiops) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon AI Operations](#)
- [Resource types defined by Amazon AI Operations](#)
- [Condition keys for Amazon AI Operations](#)

## Actions defined by Amazon AI Operations

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInvestigation</a>	Grants permission to create a new investigation in the specified investigation group	Write	<a href="#">investigation-group*</a>		kms:Decrypt kms:GenerateDataKey sts:SetContext
<a href="#">CreateInvestigationEvent</a>	Grants permission to create a new investigation event in the specified investigation group	Write	<a href="#">investigation-group*</a>		cloudwatch:DescribeAlarmHistory cloudwatch:DescribeAlarms cloudwatch:GetInsightRuleReport cloudwatch:GetMetricData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kms:Decrypt kms:GenerateDataKey logs:GetQueryResults sts:SetContext



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInvestigationGroup</a>	Grants permission to create a new investigation group	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	aiops:TagResource cloudtrail:DescribeTrails iam:PassRole kms:Decrypt kms:DescribeKey kms:GenerateDataKey sso:CreateApplication sso:DeleteApplication sso:PutApplicationAccessScope

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					sso:PutApplicationAssignmentConfiguration  sso:PutApplicationAuthenticationMethod  sso:PutApplicationGrant  sso:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInvestigationResource</a>	Grants permission to create an investigation resource in the specified investigation group	Write	<a href="#">investigation-group*</a>		cloudwatch:DescribeAlarmHistory cloudwatch:DescribeAlarms cloudwatch:GetInsightRuleReport cloudwatch:GetMetricData kms:GenerateDataKey logs:GetQueryResults

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReport</a>	Grants permission to create a new report in the specified investigation	Write	<a href="#">investigation-group*</a>		kms:Decrypt  kms:GenerateDataKey  sts:SetContext
<a href="#">DeleteInvestigation</a>	Grants permission to delete an investigation in the specified investigation group	Write	<a href="#">investigation-group*</a>		sts:SetContext
<a href="#">DeleteInvestigationGroup</a>	Grants permission to delete the specified investigation group	Write	<a href="#">investigation-group*</a>		sso:DeleteApplication
<a href="#">DeleteInvestigationGroupPolicy</a>	Grants permission to delete the investigation group policy attached to an investigation group	Write	<a href="#">investigation-group*</a>		
<a href="#">GenerateReport</a>	Grants permission to generate a report in the specified investigation report	Write	<a href="#">investigation-group*</a>		kms:Decrypt  kms:GenerateDataKey  sts:SetContext

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEphemeralInvestigationResults</a>	Grants permission to run and retrieve ephemeral investigation results	List			
<a href="#">GetFact</a>	Grants permission to retrieve a fact in the specified investigation report	Read	<a href="#">investigation-group*</a>		kms:Decrypt
<a href="#">GetFactVersions</a>	Grants permission to retrieve all versions of a fact token in the specified investigation report	Read	<a href="#">investigation-group*</a>		kms:Decrypt
<a href="#">GetInvestigation</a>	Grants permission to retrieve an investigation in the specified investigation group	Read	<a href="#">investigation-group*</a>		
<a href="#">GetInvestigationEvent</a>	Grants permission to retrieve an investigation event in the specified investigation group	Read	<a href="#">investigation-group*</a>		kms:Decrypt
<a href="#">GetInvestigationGroup</a>	Grants permission to retrieve the specified investigation group	Read	<a href="#">investigation-group*</a>		
<a href="#">GetInvestigationGroupPolicy</a>	Grants permission to retrieve the investigation group policy attached to an investigation group	Read	<a href="#">investigation-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInvestigationResource</a>	Grants permission to retrieve an investigation resource in the specified investigation group	Read	<a href="#">investigation-group*</a>		kms:Decrypt
<a href="#">GetReport</a>	Grants permission to retrieve a report in the specified investigation	Read	<a href="#">investigation-group*</a>		kms:Decrypt
<a href="#">ListFacts</a>	Grants permission to list all facts in the specified investigation report	List	<a href="#">investigation-group*</a>		kms:Decrypt
<a href="#">ListInvestigationEvents</a>	Grants permission to list all investigation events in the specified investigation group	List	<a href="#">investigation-group*</a>		
<a href="#">ListInvestigationGroups</a>	Grants permission to list all investigation groups in the AWS account making the request	List			
<a href="#">ListInvestigations</a>	Grants permission to list all investigations that are in the specified investigation group	List	<a href="#">investigation-group*</a>		
<a href="#">ListReports</a>	Grants permission to list all reports in the specified investigation	List	<a href="#">investigation-group*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	List	<a href="#">investigation-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFact</a>	Grants permission to create or update a new fact in the specified investigation report	Write	<a href="#">investigation-group*</a>		kms:Decrypt  kms:GenerateDataKey  sts:SetContext
<a href="#">PutInvestigationGroupPolicy</a>	Grants permission to create/update the investigation group policy attached to an investigation group	Write	<a href="#">investigation-group*</a>		
<a href="#">TagResource</a>	Grants permission to add or update the specified tags for the specified resource	Tagging	<a href="#">investigation-group*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the specified resource	Tagging	<a href="#">investigation-group*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInvestigation</a>	Grants permission to update an investigation in the specified investigation group	Write	<a href="#">investigation-group*</a>		kms:Decrypt kms:GenerateDataKey sts:SetContext
<a href="#">UpdateInvestigationEvent</a>	Grants permission to update an investigation event in the specified investigation group	Write	<a href="#">investigation-group*</a>		kms:Decrypt kms:GenerateDataKey sts:SetContext



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInvestigationGroup</a>	Grants permission to update the specified investigation group	Write	<a href="#">investigation-group*</a>		cloudtrail:DescribeTrails  iam:PassRole  kms:Decrypt  kms:DescribeKey  kms:GenerateDataKey  sso:CreateApplication  sso:DeleteApplication  sso:PutApplicationAccessScope  sso:PutApplicationAssignment

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					tConfiguration sso:PutApplicationAuthenticationMethod sso:PutApplicationGrant sso:TagResource
<a href="#">UpdateReport</a>	Grants permission to update a report in the specified investigation	Write	<a href="#">investigation-group*</a>		kms:Decrypt kms:GenerateDataKey sts:SetContext
<a href="#">ValidateInvestigationGroup</a>	Grants permission to validate the specified investigation group	Read	<a href="#">investigation-group*</a>		

## Resource types defined by Amazon AI Operations

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">investigation-group</a>	arn:\${Partition}:aiops:\${Region}:\${Account}:investigation-group/\${InvestigationGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon AI Operations

Amazon AI Operations defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Alexa for Business

Alexa for Business (service prefix: a4b) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Alexa for Business](#)
- [Resource types defined by Alexa for Business](#)
- [Condition keys for Alexa for Business](#)

## Actions defined by Alexa for Business

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApproveSkill</a>	Grants permission to associate a skill with the organization under the customer's AWS account	Write			
<a href="#">AssociateContactWithAddressBook</a>	Grants permission to associate a contact with a given address book	Write	<a href="#">addressbook*</a> <a href="#">contact*</a>		
<a href="#">AssociateDeviceWith</a>	Grants permission to associate a device with the specified network profile	Write	<a href="#">device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">hNetworkProfile</a>			<a href="#">networkprofile*</a>		
<a href="#">AssociateDeviceWithRoom</a>	Grants permission to associate device with given room	Write	<a href="#">device*</a> <a href="#">room*</a>		
<a href="#">AssociateSkillGroupWithRoom</a>	Grants permission to associate the skill group with given room	Write	<a href="#">room*</a> <a href="#">skillgroup*</a>		
<a href="#">AssociateSkillWithSkillGroup</a>	Grants permission to associate a skill with a skill group	Write	<a href="#">skillgroup*</a>		
<a href="#">AssociateSkillWithUsers</a>	Grants permission to make a private skill available for enrolled users to enable on their devices	Write			
<a href="#">CompleteRegistration</a> [permission only]	Grants permission to complete the operation of registering an Alexa device	Write			
<a href="#">CreateAddressBook</a>	Grants permission to create an address book with the specified details	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBusinessReportSchedule</a>	Grants permission to create a recurring schedule for usage reports to deliver to the specified S3 location with a specified daily or weekly interval	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConferenceProvider</a>	Grants permission to add a new conference provider under the user's AWS account	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateContact</a>	Grants permission to create a contact with the specified details	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGatewayGroup</a>	Grants permission to create a gateway group with the specified details	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNetworkProfile</a>	Grants permission to create a network profile with the specified details	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProfile</a>	Grants permission to create a new profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRoom</a>	Grants permission to create room with the specified details	Write	<a href="#">profile*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSkillGroup</a>	Grants permission to create a skill group with given name and description	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUser</a>	Grants permission to create a user	Write	<a href="#">user*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAddressBook</a>	Grants permission to delete an address book by the address book ARN	Write	<a href="#">addressbook*</a>		
<a href="#">DeleteBusinessReportSchedule</a>	Grants permission to delete the recurring report delivery schedule with the specified schedule ARN	Write	<a href="#">schedule*</a>		
<a href="#">DeleteConferenceProvider</a>	Grants permission to delete a conference provider	Write	<a href="#">conferenceprovider*</a>		
<a href="#">DeleteContact</a>	Grants permission to delete a contact by the contact ARN	Write	<a href="#">contact*</a>		
<a href="#">DeleteDevice</a>	Grants permission to remove a device from Alexa For Business	Write	<a href="#">device*</a>		
<a href="#">DeleteDeviceUsageData</a>	Grants permission to delete the device's entire previous history of voice input data and associated response data	Write	<a href="#">device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteGatewayGroup</a>	Grants permission to delete a gateway group	Write	<a href="#">gatewaygroup*</a>		
<a href="#">DeleteNetworkProfile</a>	Grants permission to delete a network profile by the network profile ARN	Write	<a href="#">networkprofile*</a>		
<a href="#">DeleteProfile</a>	Grants permission to delete profile by profile ARN	Write	<a href="#">profile*</a>		
<a href="#">DeleteRoom</a>	Grants permission to delete room	Write	<a href="#">room*</a>		
<a href="#">DeleteRoomSkillParameter</a>	Grants permission to delete a parameter from a skill and room	Write	<a href="#">room*</a>		
<a href="#">DeleteSkillAuthorization</a>	Grants permission to unlink a third-party account from a skill	Write	<a href="#">room*</a>		
<a href="#">DeleteSkillGroup</a>	Grants permission to delete skill group with skill group ARN	Write	<a href="#">skillgroup*</a>		
<a href="#">DeleteUser</a>	Grants permission to delete a user	Write	<a href="#">user*</a>		
<a href="#">DisassociateContactFromAddressBook</a>	Grants permission to disassociate a contact from a given address book	Write	<a href="#">addressbook*</a> <a href="#">contact*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateDeviceFromRoom</a>	Grants permission to disassociate device from its current room	Write	<a href="#">device*</a>		
<a href="#">DisassociateSkillFromSkillGroup</a>	Grants permission to disassociate a skill from a skill group	Write	<a href="#">skillgroup*</a>		
<a href="#">DisassociateSkillFromUsers</a>	Grants permission to make a private skill unavailable for enrolled users and prevent them from enabling it on their devices	Write	<a href="#">user*</a>		
<a href="#">DisassociateSkillGroupFromRoom</a>	Grants permission to disassociate the skill group from given room	Write	<a href="#">room*</a> <a href="#">skillgroup*</a>		
<a href="#">ForgetSmartHomeAppliances</a>	Grants permission to forget smart home appliances associated to a room	Write	<a href="#">room*</a>		
<a href="#">GetAddressBook</a>	Grants permission to get the address book details by the address book ARN	Read	<a href="#">addressbook*</a>		
<a href="#">GetConferencePreference</a>	Grants permission to retrieve the existing conference preferences	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConferenceProvider</a>	Grants permission to get details about a specific conference provider	Read	<a href="#">conferenceprovider*</a>		
<a href="#">GetContact</a>	Grants permission to get the contact details by the contact ARN	Read	<a href="#">contact*</a>		
<a href="#">GetDevice</a>	Grants permission to get device details	Read	<a href="#">device*</a>		
<a href="#">GetGateway</a>	Grants permission to retrieve the details of a gateway	Read	<a href="#">gateway*</a>		
<a href="#">GetGatewayGroup</a>	Grants permission to retrieve the details of a gateway group	Read	<a href="#">gatewaygroup*</a>		
<a href="#">GetInvitationConfiguration</a>	Grants permission to retrieve the configured values for the user enrollment invitation email template	Read			
<a href="#">GetNetworkProfile</a>	Grants permission to get the network profile details by the network profile ARN	Read	<a href="#">networkprofile*</a>		
<a href="#">GetProfile</a>	Grants permission to get profile when provided with Profile ARN	Read	<a href="#">profile*</a>		
<a href="#">GetRoom</a>	Grants permission to get room details	Read	<a href="#">room*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRoomSkillParameter</a>	Grants permission to get an existing parameter that has been set for a skill and room	Read	<a href="#">room*</a>		
<a href="#">GetSkillGroup</a>	Grants permission to get skill group details with skill group ARN	Read	<a href="#">skillgroup*</a>		
<a href="#">ListBusinessReportSchedules</a>	Grants permission to list the details of the schedules that a user configured	List			
<a href="#">ListConferenceProviders</a>	Grants permission to list conference providers under a specific AWS account	List			
<a href="#">ListDeviceEvents</a>	Grants permission to list the device event history, including device connection status, for up to 30 days	List	<a href="#">device*</a>		
<a href="#">ListGatewayGroups</a>	Grants permission to list gateway group summaries	List			
<a href="#">ListGateways</a>	Grants permission to list gateway summaries	List	<a href="#">gatewaygroup*</a>		
<a href="#">ListSkills</a>	Grants permission to list skills	List			
<a href="#">ListSkillStoreCategories</a>	Grants permission to list all categories in the Alexa skill store	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSkillsStoreSkillsByCategory</a>	Grants permission to list all skills in the Alexa skill store by category	List			
<a href="#">ListSmartHomeAppliances</a>	Grants permission to list all of the smart home appliances associated with a room	List	<a href="#">room*</a>		
<a href="#">ListTags</a>	Grants permission to list all tags on a resource	Read	<a href="#">device</a> <a href="#">room</a> <a href="#">user</a>		
<a href="#">PutConferencePreference</a>	Grants permission to set the conference preferences on a specific conference provider at the account level	Write			
<a href="#">PutDeviceSetupEvents</a> [permission only]	Grants permission to publish Alexa device setup events	Write			
<a href="#">PutInvitationConfiguration</a>	Grants permission to configure the email template for the user enrollment invitation with the specified attributes	Write			
<a href="#">PutRoomSkillParameter</a>	Grants permission to put a room specific parameter for a skill	Write	<a href="#">room*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutSkillAuthorization</a>	Grants permission to link a user's account to a third-party skill provider	Write	<a href="#">room*</a>		
<a href="#">RegisterAVSDevice</a>	Grants permission to register an Alexa-enabled device built by an Original Equipment Manufacturer (OEM) using Alexa Voice Service (AVS)	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RegisterDevice</a> [permission only]	Grants permission to register an Alexa device	Write			
<a href="#">RejectSkill</a>	Grants permission to disassociate a skill from the organization under a user's AWS account	Write			
<a href="#">ResolveRoom</a>	Grants permission to resolve room information	Read			
<a href="#">RevokeInvitation</a>	Grants permission to revoke an invitation	Write	<a href="#">user*</a>		
<a href="#">SearchAddressBooks</a>	Grants permission to search address books and list the ones that meet a set of filter and sort criteria	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchContacts</a>	Grants permission to search contacts and list the ones that meet a set of filter and sort criteria	List			
<a href="#">SearchDevices</a>	Grants permission to search for devices	List			
<a href="#">SearchNetworkProfiles</a>	Grants permission to search network profiles and list the ones that meet a set of filter and sort criteria	List			
<a href="#">SearchProfiles</a>	Grants permission to search for profiles	List			
<a href="#">SearchRooms</a>	Grants permission to search for rooms	List			
<a href="#">SearchSkillGroups</a>	Grants permission to search for skill groups	List			
<a href="#">SearchUsers</a>	Grants permission to search for users	List			
<a href="#">SendAnnouncement</a>	Grants permission to trigger an asynchronous flow to send text, SSML, or audio announcements to rooms that are identified by a search or filter	Write			
<a href="#">SendInvitation</a>	Grants permission to send an invitation to a user	Write	<a href="#">user*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDeviceSync</a>	Grants permission to restore the device and its account to its known, default settings by clearing all information and settings set by its previous users	Write			
<a href="#">StartSmartHomeApplianceDiscovery</a>	Grants permission to initiate the discovery of any smart home appliances associated with the room	Read	<a href="#">room*</a>		
<a href="#">TagResource</a>	Grants permission to add metadata tags to a resource	Tagging	<a href="#">device</a>		
			<a href="#">room</a>		
			<a href="#">user</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove metadata tags from a resource	Tagging	<a href="#">device</a>		
			<a href="#">room</a>		
			<a href="#">user</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAddressBook</a>	Grants permission to update address book details by the address book ARN	Write	<a href="#">addressbook*</a>		
<a href="#">UpdateBusinessReportSchedule</a>	Grants permission to update the configuration of the report delivery schedule with the specified schedule ARN	Write	<a href="#">schedule*</a>		
<a href="#">UpdateConferenceProvider</a>	Grants permission to update an existing conference provider's settings	Write	<a href="#">conferenceprovider*</a>		
<a href="#">UpdateContact</a>	Grants permission to update the contact details by the contact ARN	Write	<a href="#">contact*</a>		
<a href="#">UpdateDevice</a>	Grants permission to update device name	Write	<a href="#">device*</a>		
<a href="#">UpdateGateway</a>	Grants permission to update the details of a gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdateGatewayGroup</a>	Grants permission to update the details of a gateway group	Write	<a href="#">gatewaygroup*</a>		
<a href="#">UpdateNetworkProfile</a>	Grants permission to update a network profile by the network profile ARN	Write	<a href="#">networkprofile*</a>		
<a href="#">UpdateProfile</a>	Grants permission to update an existing profile	Write	<a href="#">profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRoom</a>	Grants permission to update room details	Write	<a href="#">room*</a>		
<a href="#">UpdateSkillGroup</a>	Grants permission to update skill group details with skill group ARN	Write	<a href="#">skillgroup*</a>		

## Resource types defined by Alexa for Business

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">profile</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:profile/\${ResourceId}	
<a href="#">room</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:room/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">device</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:device/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">skillgroup</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:skill-group/\${ResourceId}	
<a href="#">user</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:user/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">addressbook</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:address-book/\${ResourceId}	
<a href="#">conferenc eprovider</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:conference-provider/\${ResourceId}	
<a href="#">contact</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:contact/\${ResourceId}	
<a href="#">schedule</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:schedule/\${ResourceId}	
<a href="#">networkpr ofile</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:network-profile/\${ResourceId}	
<a href="#">gateway</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:gateway/\${ResourceId}	
<a href="#">gatewaygr oup</a>	arn:\${Partition}:a4b:\${Region}:\${Account}:gateway-group/\${ResourceId}	

## Condition keys for Alexa for Business

Alexa for Business defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">a4b:amazonId</a>	Filters actions based on the Amazon Id in the request	String

Condition keys	Description	Type
<a href="#">a4b:filters_deviceType</a>	Filters actions based on the device type in the request	ArrayOfString
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AmazonMediaImport

AmazonMediaImport (service prefix: `mediaimport`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AmazonMediaImport](#)
- [Resource types defined by AmazonMediaImport](#)
- [Condition keys for AmazonMediaImport](#)

## Actions defined by AmazonMediaImport

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDatabaseBinarySnapshot</a> [permission only]	Grants permission to create a database binary snapshot on the customer's aws account	Write			

## Resource types defined by AmazonMediaImport

AmazonMediaImport does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AmazonMediaImport, specify "Resource": "\*" in your policy.

## Condition keys for AmazonMediaImport

mediainport has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Amplify

AWS Amplify (service prefix: amplify) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Amplify](#)

- [Resource types defined by AWS Amplify](#)
- [Condition keys for AWS Amplify](#)

## Actions defined by AWS Amplify

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate WebACL</a>	Grants permission to associate a WebACL to a Resource	Write	<a href="#">apps*</a>		
<a href="#">CreateApp</a>	Grants permission to create a new Amplify App	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBackendEnvironment</a>	Grants permission to create a new backend environment for an Amplify App	Write	<a href="#">apps*</a>		
<a href="#">CreateBranch</a>	Grants permission to create a new Branch for an Amplify App	Write	<a href="#">branches*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateDeployment</a>	Grants permission to create a deployment for manual deploy apps. (Apps are not connected to repository)	Write	<a href="#">branches*</a>		
<a href="#">CreateDomainAssociation</a>	Grants permission to create a new DomainAssociation on an App	Write	<a href="#">domains*</a>		
<a href="#">CreateWebHook</a>	Grants permission to create a new webhook on an App	Write	<a href="#">branches*</a>		
<a href="#">DeleteApp</a>	Grants permission to delete an existing Amplify App by appId	Write	<a href="#">apps*</a>		
<a href="#">DeleteBackendEnvironment</a>	Grants permission to delete a branch for an Amplify App	Write	<a href="#">apps*</a>		
<a href="#">DeleteBranch</a>	Grants permission to delete a branch for an Amplify App	Write	<a href="#">branches*</a>		
<a href="#">DeleteDomainAssociation</a>	Grants permission to delete a DomainAssociation	Write	<a href="#">domains*</a>		
<a href="#">DeleteJob</a>	Grants permission to delete a job, for an Amplify branch, part of Amplify App	Write	<a href="#">jobs*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWebHook</a>	Grants permission to delete a webhook by id	Write	<a href="#">webhooks*</a>		
<a href="#">DisassociateWebACL</a>	Grants permission to disassociate a WebACL from a Resource	Write	<a href="#">apps*</a>		
<a href="#">GenerateAccessLogs</a>	Grants permission to generate website access logs for a specific time range via a pre-signed URL	Write	<a href="#">apps*</a>		
<a href="#">GetApp</a>	Grants permission to retrieve an existing Amplify App by appId	Read	<a href="#">apps*</a>		
<a href="#">GetArtifactUrl</a>	Grants permission to retrieve artifact info that corresponds to a artifactId	Read	<a href="#">apps*</a>		
<a href="#">GetBackendEnvironment</a>	Grants permission to retrieve a backend environment for an Amplify App	Read	<a href="#">apps*</a>		
<a href="#">GetBranch</a>	Grants permission to retrieve a branch for an Amplify App	Read	<a href="#">branches*</a>		
<a href="#">GetDomainAssociation</a>	Grants permission to retrieve domain info that corresponds to an appId and domainName	Read	<a href="#">domains*</a>		
<a href="#">GetJob</a>	Grants permission to get a job for a branch, part of an Amplify App	Read	<a href="#">jobs*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetWebACLForResource</a>	Grants permission to retrieve the WebACL associated with a Resource	Read	<a href="#">apps*</a>		
<a href="#">GetWebHook</a>	Grants permission to retrieve webhook info that corresponds to a webhookId	Read	<a href="#">webhooks*</a>		
<a href="#">ListApps</a>	Grants permission to list existing Amplify Apps	List			
<a href="#">ListArtifacts</a>	Grants permission to list artifacts with an app, a branch, a job and an artifact type	List	<a href="#">apps*</a>		
<a href="#">ListBackendEnvironments</a>	Grants permission to list backend environments for an Amplify App	List	<a href="#">apps*</a>		
<a href="#">ListBranches</a>	Grants permission to list branches for an Amplify App	List	<a href="#">apps*</a>		
<a href="#">ListDomainAssociations</a>	Grants permission to list domains with an app	List	<a href="#">apps*</a>		
<a href="#">ListJobs</a>	Grants permission to list Jobs for a branch, part of an Amplify App	List	<a href="#">branches*</a>		
<a href="#">ListResourcesForWebACL</a>	Grants permission to list the Resources associated with a WebACL	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS Amplify Console resource	Read	<a href="#">apps</a>		
			<a href="#">branches</a>		
			<a href="#">domains</a>		
			<a href="#">webhooks</a>		
<a href="#">ListWebHooks</a>	Grants permission to list webhooks on an App	List	<a href="#">apps*</a>		
<a href="#">StartDeployment</a>	Grants permission to start a deployment for manual deploy apps. (Apps are not connected to repository)	Write	<a href="#">branches*</a>		
<a href="#">StartJob</a>	Grants permission to start a new job for a branch, part of an Amplify App	Write	<a href="#">jobs*</a>		
<a href="#">StopJob</a>	Grants permission to stop a job that is in progress, for an Amplify branch, part of Amplify App	Write	<a href="#">jobs*</a>		
<a href="#">TagResource</a>	Grants permission to tag an AWS Amplify Console resource	Tagging	<a href="#">apps</a>		
			<a href="#">branches</a>		
			<a href="#">domains</a>		
			<a href="#">webhooks</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from an AWS Amplify Console resource	Tagging	<a href="#">apps</a> <a href="#">branches</a> <a href="#">domains</a> <a href="#">webhooks</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApp</a>	Grants permission to update an existing Amplify App	Write	<a href="#">apps*</a>		
<a href="#">UpdateBranch</a>	Grants permission to update a branch for an Amplify App	Write	<a href="#">branches*</a>		
<a href="#">UpdateDomainAssociation</a>	Grants permission to update a DomainAssociation on an App	Write	<a href="#">domains*</a>		
<a href="#">UpdateWebHook</a>	Grants permission to update a webhook	Write	<a href="#">webhooks*</a>		

## Resource types defined by AWS Amplify

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">apps</a>	arn:\${Partition}:amplify:\${Region}:\${Account}:apps/\${AppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">branches</a>	arn:\${Partition}:amplify:\${Region}:\${Account}:apps/\${AppId}/branches/\${BranchName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">jobs</a>	arn:\${Partition}:amplify:\${Region}:\${Account}:apps/\${AppId}/branches/\${BranchName}/jobs/\${JobId}	
<a href="#">domains</a>	arn:\${Partition}:amplify:\${Region}:\${Account}:apps/\${AppId}/domains/\${DomainName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">webhooks</a>	arn:\${Partition}:amplify:\${Region}:\${Account}:webhooks/\${WebhookId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Amplify

AWS Amplify defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag's key associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for AWS Amplify Admin

AWS Amplify Admin (service prefix: `amplifybackend`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Amplify Admin](#)
- [Resource types defined by AWS Amplify Admin](#)
- [Condition keys for AWS Amplify Admin](#)

## Actions defined by AWS Amplify Admin

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CloneBackend</a>	Grants permission to clone an existing Amplify Admin backend environment into a new Amplify Admin backend environment	Write	<a href="#">backend*</a>		
<a href="#">CreateBackend</a>	Grants permission to create a new Amplify Admin backend environment by Amplify appId	Write	<a href="#">created-backend*</a>		
<a href="#">CreateBackendAPI</a>	Grants permission to create an API for an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">api*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">CreateBackendAuth</a>	Grants permission to create an auth resource for an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">auth*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">CreateBackendConfig</a>	Grants permission to create a new Amplify Admin backend config by Amplify appId	Write	<a href="#">config*</a>		
<a href="#">CreateBackendStorage</a>	Grants permission to create a backend storage resource	Write	<a href="#">backend*</a> <a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">storage*</a>		
<a href="#">CreateToken</a>	Grants permission to create an Amplify Admin challenge token by appId	Write	<a href="#">backend*</a>		
			<a href="#">token*</a>		
<a href="#">DeleteBackend</a>	Grants permission to delete an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">backend*</a>		
			<a href="#">environment*</a>		
<a href="#">DeleteBackendAPI</a>	Grants permission to delete an API of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">api*</a>		
			<a href="#">backend*</a>		
			<a href="#">environment*</a>		
<a href="#">DeleteBackendAuth</a>	Grants permission to delete an auth resource of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">auth*</a>		
			<a href="#">backend*</a>		
			<a href="#">environment*</a>		
<a href="#">DeleteBackendStorage</a>	Grants permission to delete a backend storage resource	Write	<a href="#">backend*</a>		
			<a href="#">environment*</a>		
			<a href="#">storage*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteToken</a>	Grants permission to delete an Amplify Admin challenge token by appId	Write	<a href="#">backend*</a> <a href="#">token*</a>		
<a href="#">GenerateBackendAPIModels</a>	Grants permission to generate models for an API of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">api*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">GetBackend</a>	Grants permission to retrieve an existing Amplify Admin backend environment by appId and backendEnvironmentName	Read	<a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">GetBackendAPI</a>	Grants permission to retrieve an API of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Read	<a href="#">api*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">GetBackendAPIModels</a>	Grants permission to retrieve models for an API of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Read	<a href="#">api*</a> <a href="#">backend*</a> <a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBackendAuth</a>	Grants permission to retrieve an auth resource of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Read	<a href="#">auth*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">GetBackendJob</a>	Grants permission to retrieve a job of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Read	<a href="#">backend*</a> <a href="#">job*</a>		
<a href="#">GetBackendStorage</a>	Grants permission to retrieve an existing backend storage resource	Read	<a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">GetToken</a>	Grants permission to retrieve an Amplify Admin challenge token by appId	Read	<a href="#">backend*</a> <a href="#">token*</a>		
<a href="#">ImportBackendAuth</a>	Grants permission to import an existing auth resource of an Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">auth*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">ImportBackendStorage</a>	Grants permission to import an existing backend storage resource	Write	<a href="#">backend*</a> <a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">storage*</a>		
<a href="#">ListBackendJobs</a>	Grants permission to retrieve the jobs of an existing Amplify Admin backend environment by <code>appId</code> and <code>backendEnvironmentName</code>	List	<a href="#">backend*</a> <a href="#">job*</a>		
<a href="#">ListS3Buckets</a>	Grants permission to retrieve s3 buckets	List			<code>s3:ListAllMyBuckets</code>
<a href="#">RemoveAllBackends</a>	Grants permission to delete all existing Amplify Admin backend environments by <code>appId</code>	Write	<a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">RemoveBackendConfig</a>	Grants permission to delete an Amplify Admin backend config by Amplify <code>appId</code>	Write	<a href="#">config*</a>		
<a href="#">UpdateBackendAPI</a>	Grants permission to update an API of an existing Amplify Admin backend environment by <code>appId</code> and <code>backendEnvironmentName</code>	Write	<a href="#">api*</a> <a href="#">backend*</a> <a href="#">environment*</a>		
<a href="#">UpdateBackendAuth</a>	Grants permission to update an auth resource of an existing Amplify Admin backend environment by <code>appId</code> and <code>backendEnvironmentName</code>	Write	<a href="#">auth*</a> <a href="#">backend*</a> <a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBackendConfig</a>	Grants permission to update an Amplify Admin backend config by Amplify appId	Write	<a href="#">config*</a>		
<a href="#">UpdateBackendJob</a>	Grants permission to update a job of an existing Amplify Admin backend environment by appId and backendEnvironmentName	Write	<a href="#">backend*</a> <a href="#">job*</a>		
<a href="#">UpdateBackendStorage</a>	Grants permission to update a backend storage resource	Write	<a href="#">backend*</a> <a href="#">environment*</a> <a href="#">storage*</a>		

## Resource types defined by AWS Amplify Admin

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">created-backend</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/*	

Resource types	ARN	Condition keys
<a href="#">backend</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/*	
<a href="#">environment</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/environments/*	
<a href="#">api</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/api/*	
<a href="#">auth</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/auth/*	
<a href="#">job</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/job/*	
<a href="#">config</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/config/*	
<a href="#">token</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/challenge/*	
<a href="#">storage</a>	arn:\${Partition}:amplifybackend:\${Region}:\${Account}:/backend/\${AppId}/storage/*	



## Condition keys for AWS Amplify Admin

Amplify Admin has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Amplify UI Builder

AWS Amplify UI Builder (service prefix: `amplifyuibuilder`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Amplify UI Builder](#)
- [Resource types defined by AWS Amplify UI Builder](#)
- [Condition keys for AWS Amplify UI Builder](#)

## Actions defined by AWS Amplify UI Builder

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateComponent</a>	Grants permission to create a component	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	amplify:GetApp amplifyui-builder:G

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	etComponent  amplifyui builder:TagResource
<a href="#">CreateForm</a>	Grants permission to create a form	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	amplify:GetApp  amplifyui builder:GetForm  amplifyui builder:TagResource  amplifyui builder:UntagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTheme</a>	Grants permission to create a theme	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	amplify:GetApp  amplifyui-builder:GetTheme  amplifyui-builder:TagResource
<a href="#">DeleteComponent</a>	Grants permission to delete a component	Write	<a href="#">ComponentResource*</a>		amplify:GetApp  amplifyui-builder:UntagResource
<a href="#">DeleteForm</a>	Grants permission to delete a form	Write	<a href="#">FormResource*</a>		amplify:GetApp  amplifyui-builder:TagResource  amplifyui-builder:UntagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTheme</a>	Grants permission to delete a theme	Write	<a href="#">ThemeResource*</a>		amplify:GetApp  amplifyuibuilder:UntagResource
<a href="#">ExchangeCodeForToken</a>	Grants permission to exchange a code for a token	Write			
<a href="#">ExportComponents</a>	Grants permission to export components	Read			
<a href="#">ExportForms</a>	Grants permission to export forms	Read			
<a href="#">ExportThemes</a>	Grants permission to export themes	Read			
<a href="#">GetCodegenJob</a>	Grants permission to get an existing codegen job	Read	<a href="#">CodegenJobResource*</a>		amplify:GetApp
<a href="#">GetComponent</a>	Grants permission to get an existing component	Read	<a href="#">ComponentResource*</a>		amplify:GetApp
<a href="#">GetForm</a>	Grants permission to get an existing form	Read	<a href="#">FormResource*</a>		amplify:GetApp
<a href="#">GetMetadata</a>	Grants permission to get an existing metadata	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTheme</a>	Grants permission to get an existing theme	Read	<a href="#">ThemeResource*</a>		amplify:GetApp
<a href="#">ListCodegenJobs</a>	Grants permission to list codegen jobs	List			amplify:GetApp
<a href="#">ListComponents</a>	Grants permission to list components	List			amplify:GetApp
<a href="#">ListForms</a>	Grants permission to list forms	List			amplify:GetApp
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a specified Amazon Resource Name (ARN)	List	<a href="#">CodegenJobResource</a> <a href="#">ComponentResource</a> <a href="#">FormResource</a> <a href="#">ThemeResource</a>		
<a href="#">ListThemes</a>	Grants permission to list themes	List			amplify:GetApp
<a href="#">PutMetadataFlag</a>	Grants permission to put an existing metadata	Write			
<a href="#">RefreshToken</a>	Grants permission to refresh an access token	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetMetadataFlag</a>	Grants permission to reset an existing metadata	Write			
<a href="#">StartCodegenJob</a>	Grants permission to start a codegen job	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	amplify:GetApp
<a href="#">TagResource</a>	Grants permission to tag the resource with a tag key and value	Tagging	<a href="#">CodegenJobResource</a>		
			<a href="#">ComponentResource</a>		
			<a href="#">FormResource</a>		
			<a href="#">ThemeResource</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to untag a resource with a specified Amazon Resource Name (ARN)	Tagging	<a href="#">CodegenJobResource</a> <a href="#">ComponentResource</a> <a href="#">FormResource</a> <a href="#">ThemeResource</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateComponent</a>	Grants permission to update a component	Write	<a href="#">ComponentResource*</a>		amplify:GetApp amplifyui-builder:TagResource amplifyui-builder:UntagResource



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateForm</a>	Grants permission to update a form	Write	<a href="#">FormResource*</a>		amplify:GetApp  amplifyui-builder:GetForm  amplifyui-builder:TagResource  amplifyui-builder:UntagResource
<a href="#">UpdateTheme</a>	Grants permission to update a theme	Write	<a href="#">ThemeResource*</a>		amplify:GetApp  amplifyui-builder:GetTheme  amplifyui-builder:TagResource  amplifyui-builder:UntagResource

## Resource types defined by AWS Amplify UI Builder

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">CodegenJobResource</a>	arn:\${Partition}:amplifyuibuilder:\${Region}:\${Account}:app/\${AppId}/environment/\${EnvironmentName}/codegen-jobs/\${Id}	<a href="#">amplifyuibuilder:CodegenJobResourceAppId</a>  <a href="#">amplifyuibuilder:CodegenJobResourceEnvironmentName</a>  <a href="#">amplifyuibuilder:CodegenJobResourceId</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ComponentResource</a>	arn:\${Partition}:amplifyuibuilder:\${Region}:\${Account}:app/\${AppId}/environment/\${EnvironmentName}/components/\${Id}	<a href="#">amplifyuibuilder:ComponentResourceAppId</a>  <a href="#">amplifyuibuilder:ComponentResourceEnvironmentName</a>  <a href="#">amplifyuibuilder:ComponentResourceId</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">FormResource</a>	arn:\${Partition}:amplifyuibuilder:\${Region}:\${Account}:app/\${AppId}/environment/\${EnvironmentName}/forms/\${Id}	<a href="#">amplifyuibuilder:FormResourceAppId</a> <a href="#">amplifyuibuilder:FormResourceEnvironmentName</a> <a href="#">amplifyuibuilder:FormResourceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ThemeResource</a>	arn:\${Partition}:amplifyuibuilder:\${Region}:\${Account}:app/\${AppId}/environment/\${EnvironmentName}/themes/\${Id}	<a href="#">amplifyuibuilder:ThemeResourceAppId</a> <a href="#">amplifyuibuilder:ThemeResourceEnvironmentName</a> <a href="#">amplifyuibuilder:ThemeResourceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Amplify UI Builder

AWS Amplify UI Builder defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">amplifyui</a> <a href="#">builder:C</a> <a href="#">odegenJob</a> <a href="#">ResourceAppId</a>	Filters access by the app ID	String
<a href="#">amplifyui</a> <a href="#">builder:C</a> <a href="#">odegenJob</a> <a href="#">ResourceE</a> <a href="#">nvironmen</a> <a href="#">tName</a>	Filters access by the backend environment name	String
<a href="#">amplifyui</a> <a href="#">builder:C</a> <a href="#">odegenJob</a> <a href="#">ResourceId</a>	Filters access by the codegen job ID	String
<a href="#">amplifyui</a> <a href="#">builder:C</a> <a href="#">omponentR</a> <a href="#">esourceAppId</a>	Filters access by the app ID	String
<a href="#">amplifyui</a> <a href="#">builder:C</a> <a href="#">omponentR</a> <a href="#">esourceEn</a> <a href="#">vironmentName</a>	Filters access by the backend environment name	String
<a href="#">amplifyui</a> <a href="#">builder:C</a> <a href="#">omponentR</a> <a href="#">esourceId</a>	Filters access by the component ID	String
<a href="#">amplifyui</a> <a href="#">builder:F</a>	Filters access by the app ID	String

Condition keys	Description	Type
<a href="#">ormResourceAppId</a>		
<a href="#">amplifyuibuilder:FormResourceEnvironmentName</a>	Filters access by the backend environment name	String
<a href="#">amplifyuibuilder:FormResourceId</a>	Filters access by the form ID	String
<a href="#">amplifyuibuilder:ThemeResourceAppId</a>	Filters access by the app ID	String
<a href="#">amplifyuibuilder:ThemeResourceEnvironmentName</a>	Filters access by the backend environment name	String
<a href="#">amplifyuibuilder:ThemeResourceId</a>	Filters access by the theme ID	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Apache Kafka APIs for Amazon MSK clusters

Apache Kafka APIs for Amazon MSK clusters (service prefix: `kafka-cluster`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Apache Kafka APIs for Amazon MSK clusters](#)
- [Resource types defined by Apache Kafka APIs for Amazon MSK clusters](#)
- [Condition keys for Apache Kafka APIs for Amazon MSK clusters](#)

## Actions defined by Apache Kafka APIs for Amazon MSK clusters

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AlterCluster</a>	Grants permission to alter various aspects of the cluster, equivalent to Apache Kafka's ALTER CLUSTER ACL	Write	<a href="#">cluster*</a>		kafka-cluster:Connect  kafka-cluster:DescribeCluster

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AlterClusterDynamicConfiguration</a>	Grants permission to alter the dynamic configuration of a cluster, equivalent to Apache Kafka's ALTER_CONFIGS CLUSTER ACL	Write	<a href="#">cluster*</a>		kafka-cluster:Connect  kafka-cluster:DescribeClusterDynamicConfiguration
<a href="#">AlterGroup</a>	Grants permission to join groups on a cluster, equivalent to Apache Kafka's READ GROUP ACL	Write	<a href="#">group*</a>		kafka-cluster:Connect  kafka-cluster:DescribeGroup
<a href="#">AlterTopic</a>	Grants permission to alter topics on a cluster, equivalent to Apache Kafka's ALTER TOPIC ACL	Write	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopic



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AlterTopicDynamicConfiguration</a>	Grants permission to alter the dynamic configuration of topics on a cluster, equivalent to Apache Kafka's ALTER_CONFIGS TOPIC ACL	Write	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopicDynamicConfiguration
<a href="#">AlterTransactionalId</a>	Grants permission to alter transactional IDs on a cluster, equivalent to Apache Kafka's WRITE_TRANSACTIONAL_ID ACL	Write	<a href="#">transactional-id*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTransactionalId  kafka-cluster:WriteData
<a href="#">Connect</a>	Grants permission to connect and authenticate to the cluster	Write	<a href="#">cluster*</a>		
<a href="#">CreateTopic</a>	Grants permission to create topics on a cluster, equivalent to Apache Kafka's CREATE_CLUSTER/TOPIC ACL	Write	<a href="#">topic*</a>		kafka-cluster:Connect

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteGroup</a>	Grants permission to delete groups on a cluster, equivalent to Apache Kafka's DELETE GROUP ACL	Write	<a href="#">group*</a>		kafka-cluster:Connect  kafka-cluster:DescribeGroup
<a href="#">DeleteTopic</a>	Grants permission to delete topics on a cluster, equivalent to Apache Kafka's DELETE TOPIC ACL	Write	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopic
<a href="#">DescribeCluster</a>	Grants permission to describe various aspects of the cluster, equivalent to Apache Kafka's DESCRIBE CLUSTER ACL	List	<a href="#">cluster*</a>		kafka-cluster:Connect
<a href="#">DescribeClusterDynamicConfiguration</a>	Grants permission to describe the dynamic configuration of a cluster, equivalent to Apache Kafka's DESCRIBE_CONFIGS CLUSTER ACL	List	<a href="#">cluster*</a>		kafka-cluster:Connect
<a href="#">DescribeGroup</a>	Grants permission to describe groups on a cluster, equivalent to Apache Kafka's DESCRIBE GROUP ACL	List	<a href="#">group*</a>		kafka-cluster:Connect

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTopic</a>	Grants permission to describe topics on a cluster, equivalent to Apache Kafka's DESCRIBE TOPIC ACL	List	<a href="#">topic*</a>		kafka-cluster:Connect
<a href="#">DescribeTopicDynamicConfiguration</a>	Grants permission to describe the dynamic configuration of topics on a cluster, equivalent to Apache Kafka's DESCRIBE_CONFIGS TOPIC ACL	List	<a href="#">topic*</a>		kafka-cluster:Connect
<a href="#">DescribeTransactionalId</a>	Grants permission to describe transactional IDs on a cluster, equivalent to Apache Kafka's DESCRIBE_TRANSACTIONAL_ID ACL	List	<a href="#">transactional-id*</a>		kafka-cluster:Connect
<a href="#">ReadData</a>	Grants permission to read data from topics on a cluster, equivalent to Apache Kafka's READ TOPIC ACL	Read	<a href="#">topic*</a>		kafka-cluster:AlterGroup kafka-cluster:Connect kafka-cluster:DescribeTopic

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">WriteData</a>	Grants permission to write data to topics on a cluster, equivalent to Apache Kafka's WRITE TOPIC ACL	Write	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopic
<a href="#">WriteData Idempotently</a>	Grants permission to write data idempotently on a cluster, equivalent to Apache Kafka's IDEMPOTENT_WRITE CLUSTER ACL	Write	<a href="#">cluster*</a>		kafka-cluster:Connect  kafka-cluster:WriteData

## Resource types defined by Apache Kafka APIs for Amazon MSK clusters

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:cluster/\${ClusterName}/\${ClusterUuid}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">topic</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:topic/\${ClusterName}/\${ClusterUuid}/\${TopicName}	
<a href="#">group</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:group/\${ClusterName}/\${ClusterUuid}/\${GroupName}	
<a href="#">transactional-id</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:transactional-id/\${ClusterName}/\${ClusterUuid}/\${TransactionalId}	

## Condition keys for Apache Kafka APIs for Amazon MSK clusters

Apache Kafka APIs for Amazon MSK clusters defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource. The resource tag context key will only apply to the cluster resource, not topics, groups and transactional IDs	String

## Actions, resources, and condition keys for Amazon API Gateway

Amazon API Gateway (service prefix: `execute-api`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon API Gateway](#)
- [Resource types defined by Amazon API Gateway](#)
- [Condition keys for Amazon API Gateway](#)

## Actions defined by Amazon API Gateway

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InvalidateCache</a>	Grants permission to invalidate API cache upon a client request	Write	<a href="#">execute-api-general*</a>		
<a href="#">Invoke</a>	Grants permission to invoke an API upon a client request	Write	<a href="#">execute-api-domain</a> <a href="#">execute-api-general</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ManageConnections</a>	Grants permission to access the Websocket @connections Route	Write	<a href="#">execute-api-general*</a>		

## Resource types defined by Amazon API Gateway

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">execute-api-general</a>	arn:\${Partition}:execute-api:\${Region}:\${Account}:\${ApiId}/\${Stage}/\${Method}/\${ApiSpecificResourcePath}	<a href="#">execute-api:viaDomainArn</a>
<a href="#">execute-api-domain</a>	arn:\${Partition}:execute-api:\${Region}:\${Account}:/domainnames/\${DomainName}+\${DomainIdentifier}	

## Condition keys for Amazon API Gateway

Amazon API Gateway defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">execute-api:viaDomainArn</a>	Filters access by the DomainName ARN the API is called from	ARN

## Actions, resources, and condition keys for Amazon API Gateway Management

Amazon API Gateway Management (service prefix: `apigateway`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon API Gateway Management](#)
- [Resource types defined by Amazon API Gateway Management](#)
- [Condition keys for Amazon API Gateway Management](#)

## Actions defined by Amazon API Gateway Management

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddCertificateToDomain</a>	Grants permission to add certificates for mutual TLS authentication to a domain name. This is an additional authorization control for managing the DomainName resource due to the sensitive nature of mTLS	Permissions management	<a href="#">DomainName</a> <a href="#">DomainNames</a>		
<a href="#">CreateAccessAssociation</a>	Grants permission to create an access association from an access association source to a custom domain name for private APIs	Permissions management	<a href="#">PrivateDomainName</a>		
<a href="#">DELETE</a>	Grants permission to delete a particular resource	Write	<a href="#">ApiKey</a> <a href="#">Authorize</a> <a href="#">BasePathMapping</a> <a href="#">ClientCertificate</a> <a href="#">Deployment</a> <a href="#">DocumentationPart</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">DocumentationVersion</a>		
			<a href="#">DomainName</a>		
			<a href="#">DomainNameAccessAssociation</a>		
			<a href="#">GatewayResponse</a>		
			<a href="#">Integration</a>		
			<a href="#">IntegrationResponse</a>		
			<a href="#">Method</a>		
			<a href="#">MethodResponse</a>		
			<a href="#">Model</a>		
			<a href="#">PrivateBasePathMapping</a>		
			<a href="#">PrivateDomainName</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">RequestValidator</a>		
			<a href="#">Resource</a>		
			<a href="#">RestApi</a>		
			<a href="#">Stage</a>		
			<a href="#">Tags</a>		
			<a href="#">Template</a>		
			<a href="#">UsagePlan</a>		
			<a href="#">UsagePlanKey</a>		
			<a href="#">VpcLink</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GET</a>	Grants permission to read a particular resource	Read	<a href="#">Account</a>		
			<a href="#">ApiKey</a>		
			<a href="#">ApiKeys</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Authorize</a>		
			<a href="#">Authorize</a>		
			<a href="#">BasePathMapping</a>		
			<a href="#">BasePathMappings</a>		
			<a href="#">ClientCertificate</a>		
			<a href="#">ClientCertificates</a>		
			<a href="#">Deployment</a>		
			<a href="#">Deployments</a>		
			<a href="#">DocumentationPart</a>		
			<a href="#">DocumentationParts</a>		
			<a href="#">DocumentationVersion</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">DocumentationVersions</a>		
			<a href="#">DomainName</a>		
			<a href="#">DomainNameAccessAssociations</a>		
			<a href="#">DomainNames</a>		
			<a href="#">GatewayResponse</a>		
			<a href="#">GatewayResponses</a>		
			<a href="#">Integration</a>		
			<a href="#">IntegrationResponse</a>		
			<a href="#">Method</a>		
			<a href="#">MethodResponse</a>		
			<a href="#">Model</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Models</a>		
			<a href="#">PrivateBasePathMapping</a>		
			<a href="#">PrivateBasePathMappings</a>		
			<a href="#">PrivateDomainName</a>		
			<a href="#">RequestValidator</a>		
			<a href="#">RequestValidators</a>		
			<a href="#">Resource</a>		
			<a href="#">Resources</a>		
			<a href="#">RestApi</a>		
			<a href="#">RestApis</a>		
			<a href="#">Sdk</a>		
			<a href="#">Stage</a>		
			<a href="#">Stages</a>		
			<a href="#">Tags</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">UsagePlan</a>		
			<a href="#">UsagePlanKey</a>		
			<a href="#">UsagePlanKeys</a>		
			<a href="#">UsagePlans</a>		
			<a href="#">VpcLink</a>		
			<a href="#">VpcLinks</a>		
<a href="#">PATCH</a>	Grants permission to update a particular resource	Write	<a href="#">Account</a>		
			<a href="#">ApiKey</a>		
			<a href="#">Authorize</a>		
			<a href="#">BasePathMapping</a>		
			<a href="#">ClientCertificate</a>		
			<a href="#">Deployment</a>		
			<a href="#">DocumentationPart</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">DocumentationVersion</a>		
			<a href="#">DomainName</a>		
			<a href="#">GatewayResponse</a>		
			<a href="#">Integration</a>		
			<a href="#">IntegrationResponse</a>		
			<a href="#">Method</a>		
			<a href="#">MethodResponse</a>		
			<a href="#">Model</a>		
			<a href="#">PrivateBasePathMapping</a>		
			<a href="#">PrivateDomainName</a>		
			<a href="#">RequestValidator</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Resource</a>		
			<a href="#">RestApi</a>		
			<a href="#">Stage</a>		
			<a href="#">Template</a>		
			<a href="#">UsagePlan</a>		
			<a href="#">UsagePlan Key</a>		
			<a href="#">VpcLink</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">POST</a>	Grants permission to create a particular resource	Write	<a href="#">ApiKeys</a>		
			<a href="#">Authorize</a>		
			<a href="#">BasePathMappings</a>		
			<a href="#">ClientCertificates</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Deployments</a>		
			<a href="#">DocumentationParts</a>		
			<a href="#">DocumentationVersions</a>		
			<a href="#">DomainNameAccessAssociations</a>		
			<a href="#">DomainNames</a>		
			<a href="#">GatewayResponses</a>		
			<a href="#">IntegrationResponse</a>		
			<a href="#">MethodResponse</a>		
			<a href="#">Models</a>		
			<a href="#">PrivateBasePathMappings</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">RequestValidators</a>		
			<a href="#">Resources</a>		
			<a href="#">RestApis</a>		
			<a href="#">Stages</a>		
			<a href="#">UsagePlanKeys</a>		
			<a href="#">UsagePlans</a>		
			<a href="#">VpcLinks</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">PUT</a>	Grants permission to update a particular resource	Write	<a href="#">DocumentationPart</a>		
			<a href="#">GatewayResponse</a>		
			<a href="#">IntegrationResponse</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">MethodResponse</a>		
			<a href="#">RestApi</a>		
			<a href="#">Tags</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RejectAccessAssociation</a>	Grants permission to reject an existing access association owned by another account to a custom domain name for private APIs	Permissions management	<a href="#">PrivateDomainName</a>		
<a href="#">RemoveCertificateFromDomain</a>	Grants permission to remove certificates for mutual TLS authentication from a domain name. This is an additional authorization control for managing the DomainName resource due to the sensitive nature of mTLS	Permissions management	<a href="#">DomainName</a> <a href="#">DomainNames</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetWebACL</a>	Grants permission to set a WAF access control list (ACL). This is an additional authorization control for managing the Stage resource due to the sensitive nature of WebAcl's	Permissions management	<a href="#">Stage</a> <a href="#">Stages</a>		
<a href="#">UpdateDomainNameManagementPolicy</a>	Grants permission to update the management policy of a custom domain name for private APIs	Permissions management	<a href="#">PrivateDomainName</a>		
<a href="#">UpdateDomainNamePolicy</a>	Grants permission to update the invoke policy of a custom domain name for private APIs	Permissions management	<a href="#">DomainNames</a> <a href="#">PrivateDomainName</a>		
<a href="#">UpdateRestApiPolicy</a>	Grants permission to manage the IAM resource policy for an API. This is an additional authorization control for managing an API due to the sensitive nature of the resource policy	Permissions management	<a href="#">RestApi</a> <a href="#">RestApis</a>		

## Resource types defined by Amazon API Gateway Management

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Account</a>	arn:\${Partition}:apigateway:\${Region}::/account	
<a href="#">ApiKey</a>	arn:\${Partition}:apigateway:\${Region}::/apikeys/\${ApiKeyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ApiKeys</a>	arn:\${Partition}:apigateway:\${Region}::/apikeys	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Authorizer</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/authorizers/\${AuthorizerId}	<a href="#">apigateway:Request/AuthorizerType</a>  <a href="#">apigateway:Resource/AuthorizerType</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Authorizers</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/authorizers	<a href="#">apigateway:Request/AuthorizerType</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">BasePathMapping</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}/basepathmappings/\${BasePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">BasePathMappings</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}/basepathmappings	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">ClientCertificate</a>	arn:\${Partition}:apigateway:\${Region}::/clientcertificates/\${ClientCertificateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ClientCertificates</a>	arn:\${Partition}:apigateway:\${Region}::/clientcertificates	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Deployment</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/deployments/\${DeploymentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Deployments</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/deployments	<a href="#">apigateway:Request/StageName</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DocumentationPart</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/documentation/parts/\${DocumentationPartId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DocumentationParts</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/documentation/parts	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DocumentationVersion</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/documentation/versions/\${DocumentationVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DocumentationVersions</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/documentation/versions	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">DomainName</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}	<a href="#">apigateway:Request/EndpointType</a> <a href="#">apigateway:Request/MtlsTrustStoreUri</a> <a href="#">apigateway:Request/MtlsTrustStoreVersion</a> <a href="#">apigateway:Request/SecurityPolicy</a> <a href="#">apigateway:Resource/EndpointType</a> <a href="#">apigateway:Resource/MtlsTrustStoreUri</a> <a href="#">apigateway:Resource/MtlsTrustStoreVersion</a> <a href="#">apigateway:Resource/RoutingMode</a> <a href="#">apigateway:Resource/SecurityPolicy</a> <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">DomainNames</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames	<a href="#">apigateway:Request/EndpointType</a>  <a href="#">apigateway:Request/MtlsTrustStoreUri</a>  <a href="#">apigateway:Request/MtlsTrustStoreVersion</a>  <a href="#">apigateway:Request/SecurityPolicy</a>  <a href="#">apigateway:Resource/RoutingMode</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DomainNameAccessAssociation</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/domainnameaccessassociations/domainname/\${DomainName}/\${SourceType}/\${SourceId}	
<a href="#">DomainNameAccessAssociations</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/domainnameaccessassociations	<a href="#">apigateway:Request/AccessAssociationSource</a>  <a href="#">apigateway:Request/DomainNameArn</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">GatewayResponse</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/gatewayresponses/\${ResponseType}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">GatewayResponses</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/gatewayresponses	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Integration</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/resources/\${ResourceId}/methods/\${HttpMethodType}/integration	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">IntegrationResponse</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/resources/\${ResourceId}/methods/\${HttpMethodType}/integration/responses/\${StatusCode}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Method</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/resources/\${ResourceId}/methods/\${HttpMethodType}	<a href="#">apigateway:Request/ApiKeyRequired</a> <a href="#">apigateway:Request/RouteAuthorizationType</a> <a href="#">apigateway:Resource/ApiKeyRequired</a> <a href="#">apigateway:Resource/RouteAuthorizationType</a> <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">MethodResponse</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/resources/\${ResourceId}/methods/\${HttpMethodType}/responses/\${StatusCode}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Model</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/models/\${ModelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Models</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/models	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">PrivateBasePathMapping</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}+\${DomainIdentifier}/basepathmappings/\${BasePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">PrivateBasePathMappings</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}+\${DomainIdentifier}/basepathmappings	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">PrivateDomainName</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/domainnames/\${DomainName}+\${DomainIdentifier}	<a href="#">apigateway:Request/EndpointType</a> <a href="#">apigateway:Resource/EndpointType</a> <a href="#">apigateway:Resource/RoutingMode</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RequestValidator</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/requestvalidators/\${RequestValidatorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">RequestValidators</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/requestvalidators	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Resource</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/resources/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Resources</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/resources	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">RestApi</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}	<a href="#">apigateway:Request/ApiKeyRequired</a> <a href="#">apigateway:Request/ApiName</a> <a href="#">apigateway:Request/AuthorizerType</a> <a href="#">apigateway:Request/DisableExecuteApiEndpoint</a> <a href="#">apigateway:Request/EndpointType</a> <a href="#">apigateway:Request/RouteAuthorizationType</a> <a href="#">apigateway:Request/SecurityPolicy</a> <a href="#">apigateway:Resource/ApiKeyRequired</a> <a href="#">apigateway:Resource/ApiName</a> <a href="#">apigateway:Resource/AuthorizerType</a> <a href="#">apigateway:Resource/DisableExecuteApiEndpoint</a>

Resource types	ARN	Condition keys
		<a href="#">apigateway:Resource/EndpointType</a> <a href="#">apigateway:Resource/RouteAuthorizationType</a> <a href="#">apigateway:Resource/SecurityPolicy</a> <a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">RestApis</a>	arn:\${Partition}:apigateway:\${Region}::/restapis	<a href="#">apigateway:Request/ApiKeyRequired</a> <a href="#">apigateway:Request/ApiName</a> <a href="#">apigateway:Request/AuthorizerType</a> <a href="#">apigateway:Request/DisableExecuteApiEndpoint</a> <a href="#">apigateway:Request/EndpointType</a> <a href="#">apigateway:Request/RouteAuthorizationType</a> <a href="#">apigateway:Request/SecurityPolicy</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Sdk</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/stages/\${StageName}/sdks/\${SdkType}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Stage</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/stages/\${StageName}	<a href="#">apigateway:Request/AccessLoggingDestination</a> <a href="#">apigateway:Request/AccessLoggingFormat</a> <a href="#">apigateway:Resource/AccessLoggingDestination</a> <a href="#">apigateway:Resource/AccessLoggingFormat</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Stages</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${RestApiId}/stages	<a href="#">apigateway:Request/AccessLoggingDestination</a> <a href="#">apigateway:Request/AccessLoggingFormat</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Template</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/models/\${ModelName}/template	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">UsagePlan</a>	arn:\${Partition}:apigateway:\${Region}::/usageplans/\${UsagePlanId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">UsagePlans</a>	arn:\${Partition}:apigateway:\${Region}::/usageplans	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">UsagePlan Key</a>	arn:\${Partition}:apigateway:\${Region}::/usageplans/\${UsagePlanId}/keys/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">UsagePlan Keys</a>	arn:\${Partition}:apigateway:\${Region}::/usageplans/\${UsagePlanId}/keys	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VpcLink</a>	arn:\${Partition}:apigateway:\${Region}::/vpclinks/\${VpcLinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VpcLinks</a>	arn:\${Partition}:apigateway:\${Region}::/vpclinks	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Tags</a>	arn:\${Partition}:apigateway:\${Region}::/tags/\${UrlEncodedResourceARN}	

## Condition keys for Amazon API Gateway Management

Amazon API Gateway Management defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">apigateway:Request/AccessAssociationSource</a>	Filters access by access association source. Available during the CreateDomainNameAccessAssociation operation	String

Condition keys	Description	Type
<a href="#">apigateway:Request/AccessLoggingDestination</a>	Filters access by access log destination. Available during the CreateStage and UpdateStage operations	String
<a href="#">apigateway:Request/AccessLoggingFormat</a>	Filters access by access log format. Available during the CreateStage and UpdateStage operations	String
<a href="#">apigateway:Request/ApiKeyRequired</a>	Filters access by whether an API key is required or not. Available during the CreateMethod and PutMethod operations. Also available as a collection during import and reimport	ArrayOfBool
<a href="#">apigateway:Request/ApiName</a>	Filters access by API name. Available during the CreateRestApi and UpdateRestApi operations	String
<a href="#">apigateway:Request/AuthorizerType</a>	Filters access by type of authorizer in the request, for example TOKEN, REQUEST, JWT. Available during CreateAuthorizer and UpdateAuthorizer. Also available during import and reimport as an ArrayOfString	ArrayOfString
<a href="#">apigateway:Request/DisableExecuteApiEndpoint</a>	Filters access by status of the default execute-api endpoint. Available during the CreateRestApi and DeleteRestApi operations	Bool
<a href="#">apigateway:Request/DomainNameArn</a>	Filters access by domain name ARN. Available during the CreateDomainNameAccessAssociation operation	ARN

Condition keys	Description	Type
<a href="#">apigateway:Request/EndpointType</a>	Filters access by endpoint type. Available during the CreateDomainName, UpdateDomainName, CreateRestApi, and UpdateRestApi operations	ArrayOfString
<a href="#">apigateway:Request/MtlsTrustStoreUri</a>	Filters access by URI of the truststore used for mutual TLS authentication. Available during the CreateDomainName and UpdateDomainName operations	String
<a href="#">apigateway:Request/MtlsTrustStoreVersion</a>	Filters access by version of the truststore used for mutual TLS authentication. Available during the CreateDomainName and UpdateDomainName operations	String
<a href="#">apigateway:Request/RouteAuthorizationType</a>	Filters access by authorization type, for example NONE, AWS_IAM, CUSTOM, JWT, COGNITO_USER_POOLS. Available during the CreateMethod and PutMethod operations Also available as a collection during import	ArrayOfString
<a href="#">apigateway:Request/RoutingMode</a>	Filters access by routing mode of the domain name. Available during the CreateDomainName and UpdateDomainName operations	String
<a href="#">apigateway:Request/SecurityPolicy</a>	Filters access by TLS version. Available during the CreateDomain and UpdateDomain operations	ArrayOfString
<a href="#">apigateway:Request/StageName</a>	Filters access by stage name of the deployment that you attempt to create. Available during the CreateDeployment operation	String
<a href="#">apigateway:Resource/AccessLoggingDestination</a>	Filters access by access log destination of the current Stage resource. Available during the UpdateStage and DeleteStage operations	String

Condition keys	Description	Type
<a href="#">apigateway:Resource/AccessLoggingFormat</a>	Filters access by access log format of the current Stage resource. Available during the UpdateStage and DeleteStage operations	String
<a href="#">apigateway:Resource/ApiKeyRequired</a>	Filters access by whether an API key is required or not for the existing Method resource. Available during the PutMethod and DeleteMethod operations. Also available as a collection during reimport	ArrayOfBool
<a href="#">apigateway:Resource/ApiName</a>	Filters access by API name of the existing RestApi resource. Available during UpdateRestApi and DeleteRestApi operations	String
<a href="#">apigateway:Resource/AuthorizerType</a>	Filters access by the current type of authorizer, for example TOKEN, REQUEST, JWT. Available during UpdateAuthorizer and DeleteAuthorizer operations. Also available during reimport as an ArrayOfString	ArrayOfString
<a href="#">apigateway:Resource/DisableExecuteApiEndpoint</a>	Filters access by status of the default execute-api endpoint of the current RestApi resource. Available during UpdateRestApi and DeleteRestApi operations	Bool
<a href="#">apigateway:Resource/EndpointType</a>	Filters access by endpoint type. Available during the UpdateDomainName, DeleteDomainName, UpdateRestApi, and DeleteRestApi operations	ArrayOfString
<a href="#">apigateway:Resource/MtlsTrustStoreUri</a>	Filters access by URI of the truststore used for mutual TLS authentication. Available during UpdateDomainName and DeleteDomainName operations	String

Condition keys	Description	Type
<a href="#">apigateway:Resource/MtlsTrustStoreVersion</a>	Filters access by version of the truststore used for mutual TLS authentication. Available during UpdateDomainName and DeleteDomainName operations	String
<a href="#">apigateway:Resource/RouteAuthorizationType</a>	Filters access by authorization type of the existing Method resource, for example NONE, AWS_IAM, CUSTOM, JWT, COGNITO_USER_POOLS. Available during the PutMethod and DeleteMethod operations. Also available as a collection during reimport	ArrayOfString
<a href="#">apigateway:Resource/RoutingMode</a>	Filters access by routing mode of the domain name. Available during the UpdateDomainName and DeleteDomainName operations	String
<a href="#">apigateway:Resource/SecurityPolicy</a>	Filters access by TLS version. Available during UpdateDomain and DeleteDomain operations	ArrayOfString
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon API Gateway Management V2

Amazon API Gateway Management V2 (service prefix: `apigateway`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon API Gateway Management V2](#)
- [Resource types defined by Amazon API Gateway Management V2](#)
- [Condition keys for Amazon API Gateway Management V2](#)

## Actions defined by Amazon API Gateway Management V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.



The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePortal</a>	Grants permission to create a Portal	Write	<a href="#">Portal*</a>	<a href="#">apigateway:Request/PortalDisplayName</a> <a href="#">apigateway:Request/PortalDomainName</a> <a href="#">apigateway:Request/CognitoU</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">serPoolArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePortalProduct</a>	Grants permission to create a Portal Product	Write	<a href="#">PortalProduct*</a>		
				<a href="#">apigateway:Request/PortalProductDisplayName</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProductPage</a>	Grants permission to create a Product Page	Write	<a href="#">ProductPage*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">apigateway:Request / ProductPageTitle</a>	
<a href="#">CreateProductRestEndpointPage</a>	Grants permission to create a Product REST Endpoint Page	Write	<a href="#">ProductRestEndpointPage*</a>	<a href="#">apigateway:Request / RestApiId</a> <a href="#">apigateway:Request / Stage</a> <a href="#">apigateway:Request / Method</a> <a href="#">apigateway:Request / ProductRestEndpointPageEndpointPrefix</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRoutingRule</a>	Grants permission to create a routing rule	Write	<a href="#">RoutingRule*</a>	<a href="#">apigateway:Request/Priority</a>  <a href="#">apigateway:Request/ConditionBasePaths</a>	
<a href="#">DELETE</a>	Grants permission to delete a particular resource	Write	<a href="#">AccessLogSettings</a>  <a href="#">Api</a>  <a href="#">ApiMapping</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Authorize</a>		
			<a href="#">AuthorizeCache</a>		
			<a href="#">Cors</a>		
			<a href="#">Deployment</a>		
			<a href="#">Integration</a>		
			<a href="#">IntegrationResponse</a>		
			<a href="#">Model</a>		
			<a href="#">Route</a>		
			<a href="#">RouteRequestParameter</a>		
			<a href="#">RouteResponse</a>		
			<a href="#">RouteSettings</a>		
			<a href="#">Stage</a>		
			<a href="#">VpcLink</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeletePortal</a>	Grants permission to delete a Portal	Write	<a href="#">Portal*</a>		
<a href="#">DeletePortalProduct</a>	Grants permission to delete a Portal Product	Write	<a href="#">PortalProduct*</a>		
<a href="#">DeletePortalProductSharingPolicy</a>	Grants permission to delete a Portal Product Sharing Policy	Permissions management	<a href="#">PortalProduct*</a>		
<a href="#">DeleteProductPage</a>	Grants permission to delete a Product Page	Write	<a href="#">ProductPage*</a>		
<a href="#">DeleteProductRestEndpointPage</a>	Grants permission to delete a Product REST Endpoint Page	Write	<a href="#">PortalProduct*</a>		
			<a href="#">ProductRestEndpointPage*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRoutingRule</a>	Grants permission to delete a routing rule	Write	<a href="#">RoutingRule*</a>	<a href="#">apigateway:Resource/Priority</a>	
				<a href="#">apigateway:Resource/ConditionBasePaths</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">apigateway:Resource/Priority</a>	
				<a href="#">apigateway:Resource/ConditionBasePaths</a>	
<a href="#">DisablePortal</a>	Grants permission to disable a Portal	Write	<a href="#">Portal*</a>		
<a href="#">GET</a>	Grants permission to read a particular resource	Read	<a href="#">AccessLogSettings</a>		
			<a href="#">Api</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ApiMapping</a>		
			<a href="#">ApiMappings</a>		
			<a href="#">Apis</a>		
			<a href="#">Authorize</a>		
			<a href="#">Authorize</a>		
			<a href="#">AuthorizeCache</a>		
			<a href="#">Cors</a>		
			<a href="#">Deployment</a>		
			<a href="#">Deployments</a>		
			<a href="#">ExportedAPI</a>		
			<a href="#">Integration</a>		
			<a href="#">IntegrationResponse</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">IntegrationResponses</a>		
			<a href="#">Integrations</a>		
			<a href="#">Model</a>		
			<a href="#">ModelTemplate</a>		
			<a href="#">Models</a>		
			<a href="#">Route</a>		
			<a href="#">RouteRequestParameter</a>		
			<a href="#">RouteResponse</a>		
			<a href="#">RouteResponses</a>		
			<a href="#">RouteSettings</a>		
			<a href="#">Routes</a>		
			<a href="#">Stage</a>		
			<a href="#">Stages</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">VpcLink</a>		
			<a href="#">VpcLinks</a>		
<a href="#">GetPortal</a>	Grants permission to read a Portal	Read	<a href="#">Portal*</a>		
<a href="#">GetPortalProduct</a>	Grants permission to read a Portal Product	Read	<a href="#">PortalProduct*</a>		
<a href="#">GetPortalProductSharingPolicy</a>	Grants permission to read a Portal Product Sharing Policy	Read	<a href="#">PortalProduct*</a>		
<a href="#">GetProductPage</a>	Grants permission to read a Product Page	Read	<a href="#">ProductPage*</a>		
			<a href="#">PortalProduct</a>		
<a href="#">GetProductRestEndpointPage</a>	Grants permission to read a Product REST Endpoint Page	Read	<a href="#">ProductRestEndpointPage*</a>		
			<a href="#">PortalProduct</a>		
<a href="#">GetRoutingRule</a>	Grants permission to read a routing rule	Read	<a href="#">RoutingRule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPortalProducts</a>	Grants permission to list Portal Products	List	<a href="#">PortalProduct*</a>		
<a href="#">ListPortals</a>	Grants permission to list Portals	List	<a href="#">Portal*</a>		
<a href="#">ListProductPages</a>	Grants permission to list Product Pages	List	<a href="#">ProductPage*</a>		
			<a href="#">PortalProduct</a>		
<a href="#">ListProductRestEndpointPages</a>	Grants permission to list Product REST Endpoint Pages	List	<a href="#">ProductRestEndpointPage*</a>		
			<a href="#">PortalProduct</a>		
<a href="#">ListRoutingRules</a>	Grants permission to list routing rules under a domain name	List	<a href="#">RoutingRule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PATCH</a>	Grants permission to update a particular resource	Write	<a href="#">Api</a>		
			<a href="#">ApiMapping</a>		
			<a href="#">Authorizer</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Deployment</a>		
			<a href="#">Integration</a>		
			<a href="#">IntegrationResponse</a>		
			<a href="#">Model</a>		
			<a href="#">Route</a>		
			<a href="#">RouteRequestParameter</a>		
			<a href="#">RouteResponse</a>		
			<a href="#">Stage</a>		
			<a href="#">VpcLink</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">POST</a>	Grants permission to create a particular resource	Write	<a href="#">ApiMappings</a>		
			<a href="#">Apis</a>		
			<a href="#">AuthorizeRs</a>		
			<a href="#">Deployments</a>		
			<a href="#">IntegrationResponses</a>		
			<a href="#">Integrations</a>		
			<a href="#">Models</a>		
			<a href="#">RouteResponses</a>		
			<a href="#">Routes</a>		
			<a href="#">Stages</a>		
<a href="#">VpcLinks</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PUT</a>	Grants permission to update a particular resource	Write	<a href="#">Api</a> <a href="#">Apis</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PreviewPortal</a>	Grants permission to preview a Portal	Write	<a href="#">Portal*</a>		
<a href="#">PublishPortal</a>	Grants permission to publish a Portal	Write	<a href="#">Portal*</a>		
<a href="#">PutPortalProductSharingPolicy</a>	Grants permission to put a Portal Product Sharing Policy	Permissions management	<a href="#">PortalProduct*</a>		
<a href="#">UpdatePortal</a>	Grants permission to update a Portal	Write	<a href="#">Portal*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">apigateway:Request/PortalDisplayName</a> <a href="#">apigateway:Request/PortalDomainName</a> <a href="#">apigateway:Request/CognitoUserPoolArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdatePortalProduct</a>	Grants permission to update a Portal Product	Write	<a href="#">PortalProduct*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">apigateway:Request/PortalProductDisplayName</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateProductPage</a>	Grants permission to update a Product Page	Write	<a href="#">ProductPage*</a>		
<a href="#">UpdateProductRestEndpointPage</a>	Grants permission to update a Product REST Endpoint Page	Write	<a href="#">ProductRestEndpointPage*</a>	<a href="#">apigateway:Request/ProductPageTitle</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">apigateway:Request/</a> <a href="#">ProductRequestEndpointPrefix</a>	
<a href="#">UpdateRoutingRule</a>	Grants permission to update a routing rule using the PutRoutingRule API	Write	<a href="#">RoutingRule*</a>	<a href="#">apigateway:Request/Priority</a>  <a href="#">apigateway:Request/ConditionBasePaths</a>  <a href="#">apigateway:Resource/Priority</a>  <a href="#">apigateway:Resource/ConditionBasePaths</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">apigateway:Request/Priority</a>  <a href="#">apigateway:Request/ConditionBasePaths</a>  <a href="#">apigateway:Resource/Priority</a>  <a href="#">apigateway:Resource/ConditionBasePaths</a>	

## Resource types defined by Amazon API Gateway Management V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AccessLog Settings</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/stages/\${StageName}/accesslogsettings	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Api</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}	<a href="#">apigateway:Request/ApiKeyRequired</a> <a href="#">apigateway:Request/ApiName</a> <a href="#">apigateway:Request/AuthorizerType</a> <a href="#">apigateway:Request/AuthorizerUri</a> <a href="#">apigateway:Request/DisableExecuteApiEndpoint</a> <a href="#">apigateway:Request/EndpointType</a> <a href="#">apigateway:Request/RouteAuthorizationType</a> <a href="#">apigateway:Resource/ApiKeyRequired</a> <a href="#">apigateway:Resource/ApiName</a> <a href="#">apigateway:Resource/AuthorizerType</a>

Resource types	ARN	Condition keys
		<a href="#">apigateway:Resource/AuthorizerUri</a> <a href="#">apigateway:Resource/DisableExecuteApiEndpoint</a> <a href="#">apigateway:Resource/EndpointType</a> <a href="#">apigateway:Resource/RouteAuthorizationType</a> <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Apis</a>	arn:\${Partition}:apigateway:\${Region}::/apis	<a href="#">apigateway:Request/ApiKeyRequired</a>  <a href="#">apigateway:Request/ApiName</a>  <a href="#">apigateway:Request/AuthorizerType</a>  <a href="#">apigateway:Request/AuthorizerUri</a>  <a href="#">apigateway:Request/DisableExecuteApiEndpoint</a>  <a href="#">apigateway:Request/EndpointType</a>  <a href="#">apigateway:Request/RouteAuthorizationType</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ApiMapping</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}/apimappings/\${ApiMappingId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ApiMappings</a>	arn:\${Partition}:apigateway:\${Region}::/domainnames/\${DomainName}/apimappings	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Authorizer</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/authorizers/\${AuthorizerId}	<a href="#">apigateway:Request/AuthorizerType</a> <a href="#">apigateway:Request/AuthorizerUri</a> <a href="#">apigateway:Resource/AuthorizerType</a> <a href="#">apigateway:Resource/AuthorizerUri</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Authorizers</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/authorizers	<a href="#">apigateway:Request/AuthorizerType</a> <a href="#">apigateway:Request/AuthorizerUri</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Authorize rsCache</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/stages/\${StageName}/cache/authorizers	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Cors</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/cors	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Deployment</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/deployments/\${DeploymentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Deployments</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/deployments	<a href="#">apigateway:Request/StageName</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ExportedAPI</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/exports/\${Specification}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Integration</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/integrations/\${IntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Integrations</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/integrations	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">IntegrationResponse</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/integrations/\${IntegrationId}/integrationresponses/\${IntegrationResponseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">IntegrationResponses</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/integrations/\${IntegrationId}/integrationresponses	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Model</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/models/\${ModelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Models</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/models	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ModelTemplate</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/models/\${ModelId}/template	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Route</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/routes/\${RouteId}	<a href="#">apigateway:Request/ApiKeyRequired</a>  <a href="#">apigateway:Request/RouteAuthorizationType</a>  <a href="#">apigateway:Resource/ApiKeyRequired</a>  <a href="#">apigateway:Resource/RouteAuthorizationType</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Routes</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/routes	<a href="#">apigateway:Request/ApiKeyRequired</a>  <a href="#">apigateway:Request/RouteAuthorizationType</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RouteResponse</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/routes/\${RouteId}/routeresponses/\${RouteResponseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RouteResponses</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/routes/\${RouteId}/routeresponses	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">RouteRequestParameter</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/routes/\${RouteId}/requestparameters/\${RequestParameterKey}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RouteSettings</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/stages/\${StageName}/routeSettings/\${RouteKey}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RoutingRule</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/domainnames/\${DomainName}/routingrules/\${RoutingRuleId}	<a href="#">apigateway:Resource/ConditionBasePaths</a> <a href="#">apigateway:Resource/Priority</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Stage</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/stages/\${StageName}	<a href="#">apigateway:Request/AccessLoggingDestination</a> <a href="#">apigateway:Request/AccessLoggingFormat</a> <a href="#">apigateway:Resource/AccessLoggingDestination</a> <a href="#">apigateway:Resource/AccessLoggingFormat</a> <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Stages</a>	arn:\${Partition}:apigateway:\${Region}::/apis/\${ApiId}/stages	<a href="#">apigateway:Request/AccessLoggingDestination</a> <a href="#">apigateway:Request/AccessLoggingFormat</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VpcLink</a>	arn:\${Partition}:apigateway:\${Region}::/vpclinks/\${VpcLinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VpcLinks</a>	arn:\${Partition}:apigateway:\${Region}::/vpclinks	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Portal</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/portals/\${PortalId}	<a href="#">apigateway:Resource/CognitoUserPoolArn</a> <a href="#">apigateway:Resource/PortalDisplayName</a> <a href="#">apigateway:Resource/PortalDomainName</a> <a href="#">apigateway:Resource/PortalPublishStatus</a> <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">PortalProduct</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/portalproducts/\${PortalProductId}	<a href="#">apigateway:Resource/PortalProductDisplayName</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ProductPage</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/portalproducts/\${PortalProductId}/productpages/\${ProductPageId}	<a href="#">apigateway:Resource/ProductPageTitle</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ProductRestEndpointPage</a>	arn:\${Partition}:apigateway:\${Region}:\${Account}:/portalproducts/\${PortalProductId}/productrestendpointpages/\${ProductRestEndpointPageId}	<a href="#">apigateway:Resource/Method</a>  <a href="#">apigateway:Resource/ProductRestEndpointPageEndpointPrefix</a>  <a href="#">apigateway:Resource/RestApiId</a>  <a href="#">apigateway:Resource/Stage</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon API Gateway Management V2

Amazon API Gateway Management V2 defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">apigatewa y:Request /AccessLo ggingDest ination</a>	Filters access by access log destination. Available during the CreateStage and UpdateStage operations	String
<a href="#">apigatewa y:Request /AccessLo ggingFormat</a>	Filters access by access log format. Available during the CreateStage and UpdateStage operations	String
<a href="#">apigatewa y:Request/ ApiKeyRequired</a>	Filters access by the requirement of API. Available during the CreateRoute and UpdateRoute operations. Also available as a collection during import and reimport	ArrayOfBool
<a href="#">apigatewa y:Request/ ApiName</a>	Filters access by API name. Available during the CreateApi and UpdateApi operations	String
<a href="#">apigatewa y:Request/ AuthorizerType</a>	Filters access by type of authorizer in the request, for example REQUEST or JWT. Available during CreateAuthorizer and UpdateAuthorizer. Also available during import and reimport as an ArrayOfString	ArrayOfString
<a href="#">apigatewa y:Request/ AuthorizerUri</a>	Filters access by URI of a Lambda authorizer function. Available during CreateAuthorizer and UpdateAuthorizer. Also available during import and reimport as an ArrayOfString	ArrayOfString
<a href="#">apigatewa y:Request /CognitoU serPoolArn</a>	Filters access by a Portal's CognitoUserPoolArn that is passed in the request	ARN

Condition keys	Description	Type
<a href="#">apigateway:Request/ConditionBasePaths</a>	Filters access by base paths defined on the condition of a routing rule. Available during the CreateRoutingRule and UpdateRoutingRule operations	ArrayOfString
<a href="#">apigateway:Request/DisableExecuteApiEndpoint</a>	Filters access by status of the default execute-api endpoint. Available during the CreateApi and UpdateApi operations	Bool
<a href="#">apigateway:Request/EndpointType</a>	Filters access by endpoint type. Available during the CreateDomainName, UpdateDomainName, CreateApi, and UpdateApi operations	ArrayOfString
<a href="#">apigateway:Request/Method</a>	Filters access by a ProductRestEndpointPage's HTTP Method that is passed in the request	String
<a href="#">apigateway:Request/MtlsTrustStoreUri</a>	Filters access by URI of the truststore used for mutual TLS authentication. Available during the CreateDomainName and UpdateDomainName operations	String
<a href="#">apigateway:Request/MtlsTrustStoreVersion</a>	Filters access by version of the truststore used for mutual TLS authentication. Available during the CreateDomainName and UpdateDomainName operations	String
<a href="#">apigateway:Request/PortalDisplayName</a>	Filters access by a Portal's Display Name that is passed in the request	String

Condition keys	Description	Type
<a href="#">apigateway:Request/PortalDomainName</a>	Filters access by a Portal's vanity domain name that is passed in the request	String
<a href="#">apigateway:Request/PortalProductDisplayName</a>	Filters access by a PortalProduct's Display Name that is passed in the request	String
<a href="#">apigateway:Request/Priority</a>	Filters access by priority of the routing rule. Available during the CreateRoutingRule and UpdateRoutingRule operations	Numeric
<a href="#">apigateway:Request/ProductPageTitle</a>	Filters access by a ProductPage's Title that is passed in the request	String
<a href="#">apigateway:Request/ProductRestEndpointPageEndpointPrefix</a>	Filters access by a ProductRestEndpointPage's EndpointPrefix that is passed in the request	String
<a href="#">apigateway:Request/RestApiId</a>	Filters access by a ProductRestEndpointPage's Amazon API Gateway API ID that is passed in the request	String
<a href="#">apigateway:Request/RouteAuthorizationType</a>	Filters access by authorization type, for example NONE, AWS_IAM, CUSTOM, JWT. Available during the CreateRoute and UpdateRoute operations. Also available as a collection during import	ArrayOfString

Condition keys	Description	Type
<a href="#">apigateway:Request/RoutingMode</a>	Filters access by routing mode of the domain name. Available during the CreateDomainName and UpdateDomainName operations	String
<a href="#">apigateway:Request/SecurityPolicy</a>	Filters access by TLS version. Available during the CreateDomain and UpdateDomain operations	ArrayOfString
<a href="#">apigateway:Request/Stage</a>	Filters access by a ProductRestEndpointPage's Amazon API Gateway Stage Name that is passed in the request	String
<a href="#">apigateway:Request/StageName</a>	Filters access by stage name of the deployment that you attempt to create. Available during the CreateDeployment operation	String
<a href="#">apigateway:Resource/AccessLoggingDestination</a>	Filters access by access log destination of the current Stage resource. Available during the UpdateStage and DeleteStage operations	String
<a href="#">apigateway:Resource/AccessLoggingFormat</a>	Filters access by access log format of the current Stage resource. Available during the UpdateStage and DeleteStage operations	String
<a href="#">apigateway:Resource/ApiKeyRequired</a>	Filters access by the requirement of API key for the existing Route resource. Available during the UpdateRoute and DeleteRoute operations. Also available as a collection during reimport	ArrayOfBool
<a href="#">apigateway:Resource/ApiName</a>	Filters access by API name. Available during the UpdateApi and DeleteApi operations	String

Condition keys	Description	Type
<a href="#">apigateway:Resource/AuthorizerType</a>	Filters access by the current type of authorizer, for example REQUEST or JWT. Available during UpdateAuthorizer and DeleteAuthorizer operations. Also available during import and reimport as an ArrayOfString	ArrayOfString
<a href="#">apigateway:Resource/AuthorizerUri</a>	Filters access by the URI of the current Lambda authorizer associated with the current API. Available during UpdateAuthorizer and DeleteAuthorizer. Also available as a collection during reimport	ArrayOfString
<a href="#">apigateway:Resource/CognitoUserPoolArn</a>	Filters access by a Portal's CognitoUserPoolArn associated with the resource	ARN
<a href="#">apigateway:Resource/ConditionBasePaths</a>	Filters access by base paths defined on the condition of the existing routing rule. Available during the UpdateRoutingRule and DeleteRoutingRule operations	ArrayOfString
<a href="#">apigateway:Resource/DisableExecuteApiEndpoint</a>	Filters access by status of the default execute-api endpoint. Available during the UpdateApi and DeleteApi operations	Bool
<a href="#">apigateway:Resource/EndpointType</a>	Filters access by endpoint type. Available during the UpdateDomainName, DeleteDomainName, UpdateApi, and DeleteApi operations	ArrayOfString
<a href="#">apigateway:Resource/Method</a>	Filters access by a ProductRestEndpointPage's HTTP Method associated with the resource	String



Condition keys	Description	Type
<a href="#">apigateway:Resource/MtlsTrustStoreUri</a>	Filters access by URI of the truststore used for mutual TLS authentication. Available during the UpdateDomainName and DeleteDomainName operations	String
<a href="#">apigateway:Resource/MtlsTrustStoreVersion</a>	Filters access by version of the truststore used for mutual TLS authentication. Available during the UpdateDomainName and DeleteDomainName operations	String
<a href="#">apigateway:Resource/PortalDisplayName</a>	Filters access by a Portal's Display Name associated with the resource	String
<a href="#">apigateway:Resource/PortalDomainName</a>	Filters access by a Portal's vanity domain name associated with the resource	String
<a href="#">apigateway:Resource/PortalProductDisplayName</a>	Filters access by a PortalProduct's Display Name associated with the resource	String
<a href="#">apigateway:Resource/PortalPublishStatus</a>	Filters access by a Portal's published status associated with the resource	String
<a href="#">apigateway:Resource/Priority</a>	Filters access by priority of the existing routing rule. Available during the UpdateRoutingRule and DeleteRoutingRule operations	Numeric

Condition keys	Description	Type
<a href="#">apigateway:Resource/ProductPageTitle</a>	Filters access by a ProductPage's Title associated with the resource	String
<a href="#">apigateway:Resource/ProductRestEndpointPageEndpointPrefix</a>	Filters access by a ProductRestEndpointPage's EndpointPrefix associated with the resource	String
<a href="#">apigateway:Resource/RestApilId</a>	Filters access by a ProductRestEndpointPage's Amazon API Gateway API ID associated with the resource	String
<a href="#">apigateway:Resource/RouteAuthorizationType</a>	Filters access by authorization type of the existing Route resource, for example NONE, AWS_IAM, CUSTOM. Available during the UpdateRoute and DeleteRoute operations. Also available as a collection during reimport	ArrayOfString
<a href="#">apigateway:Resource/RoutingMode</a>	Filters access by routing mode of the existing domain name. Available during the UpdateDomainName and DeleteDomainName operations	String
<a href="#">apigateway:Resource/SecurityPolicy</a>	Filters access by TLS version. Available during the UpdateDomainName and DeleteDomainName operations	ArrayOfString
<a href="#">apigateway:Resource/Stage</a>	Filters access by a ProductRestEndpointPage's Amazon API Gateway Stage Name associated with the resource	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS App Mesh

AWS App Mesh (service prefix: appmesh) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS App Mesh](#)
- [Resource types defined by AWS App Mesh](#)
- [Condition keys for AWS App Mesh](#)

## Actions defined by AWS App Mesh

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGatewayRoute</a>	Grants permission to create a gateway route that is	Write	<a href="#">gatewayRoute*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	associated with a virtual gateway			<a href="#">aws:RequestTag/\${TagKey}</a>	
			<a href="#">virtualService</a>		
<a href="#">CreateMesh</a>	Grants permission to create a service mesh	Write	<a href="#">mesh*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRoute</a>	Grants permission to create a route that is associated with a virtual router	Write	<a href="#">route*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
			<a href="#">virtualNode</a>		
<a href="#">CreateVirtualGateway</a>	Grants permission to create a virtual gateway within a service mesh	Write	<a href="#">virtualGateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateVirtualNode</a>	Grants permission to create a virtual node within a service mesh	Write	<a href="#">virtualNode*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
			<a href="#">virtualService</a>		
<a href="#">CreateVirtualRouter</a>	Grants permission to create a virtual router within a service mesh	Write	<a href="#">virtualRouter*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVirtualService</a>	Grants permission to create a virtual service within a service mesh	Write	<a href="#">virtualService*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
			<a href="#">virtualNode</a>		
			<a href="#">virtualRouter</a>		
<a href="#">DeleteGatewayRoute</a>	Grants permission to delete an existing gateway route	Write	<a href="#">gatewayRoute*</a>		
<a href="#">DeleteMesh</a>	Grants permission to delete an existing service mesh	Write	<a href="#">mesh*</a>		
<a href="#">DeleteMeshPolicy</a> [permission only]	Grants permission to delete the RAM access control policy for a mesh	Write	<a href="#">mesh*</a>		
<a href="#">DeleteRoute</a>	Grants permission to delete an existing route	Write	<a href="#">route*</a>		
<a href="#">DeleteVirtualGateway</a>	Grants permission to delete an existing virtual gateway	Write	<a href="#">virtualGateway*</a>		
<a href="#">DeleteVirtualNode</a>	Grants permission to delete an existing virtual node	Write	<a href="#">virtualNode*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVirtualRouter</a>	Grants permission to delete an existing virtual router	Write	<a href="#">virtualRouter*</a>		
<a href="#">DeleteVirtualService</a>	Grants permission to delete an existing virtual service	Write	<a href="#">virtualService*</a>		
<a href="#">DescribeGatewayRoute</a>	Grants permission to describe an existing gateway route	Read	<a href="#">gatewayRoute*</a>		
<a href="#">DescribeMesh</a>	Grants permission to describe an existing service mesh	Read	<a href="#">mesh*</a>		
<a href="#">DescribeRoute</a>	Grants permission to describe an existing route	Read	<a href="#">route*</a>		
<a href="#">DescribeVirtualGateway</a>	Grants permission to describe an existing virtual gateway	Read	<a href="#">virtualGateway*</a>		
<a href="#">DescribeVirtualNode</a>	Grants permission to describe an existing virtual node	Read	<a href="#">virtualNode*</a>		
<a href="#">DescribeVirtualRouter</a>	Grants permission to describe an existing virtual router	Read	<a href="#">virtualRouter*</a>		
<a href="#">DescribeVirtualService</a>	Grants permission to describe an existing virtual service	Read	<a href="#">virtualService*</a>		
<a href="#">GetMeshPolicy</a> [permission only]	Grants permission to read the RAM access control policy for a mesh	Read	<a href="#">mesh*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGatewayRoutes</a>	Grants permission to list existing gateway routes in a service mesh	List	<a href="#">virtualGateway*</a>		
<a href="#">ListMeshes</a>	Grants permission to list existing service meshes	List			
<a href="#">ListRoutes</a>	Grants permission to list existing routes in a service mesh	List	<a href="#">virtualRouter*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an App Mesh resource	List	<a href="#">gatewayRoute</a>		
			<a href="#">mesh</a>		
			<a href="#">route</a>		
			<a href="#">virtualGateway</a>		
			<a href="#">virtualNode</a>		
			<a href="#">virtualRouter</a>		
			<a href="#">virtualService</a>		
<a href="#">ListVirtualGateways</a>	Grants permission to list existing virtual gateways in a service mesh	List	<a href="#">mesh*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListVirtualNodes</a>	Grants permission to list existing virtual nodes	List	<a href="#">mesh*</a>		
<a href="#">ListVirtualRouters</a>	Grants permission to list existing virtual routers in a service mesh	List	<a href="#">mesh*</a>		
<a href="#">ListVirtualServices</a>	Grants permission to list existing virtual services in a service mesh	List	<a href="#">mesh*</a>		
<a href="#">PutMeshPolicy</a> [permission only]	Grants permission to define the RAM access control policy for a mesh	Write	<a href="#">mesh*</a>		
<a href="#">StreamAggregatedResources</a>	Grants permission to receive streamed resources for an App Mesh endpoint (VirtualNode/VirtualGateway)	Read	<a href="#">virtualGateway</a>		
			<a href="#">virtualNode</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource with a specified resourceArn	Tagging	<a href="#">gatewayRoute</a>		
			<a href="#">mesh</a>		
			<a href="#">route</a>		
			<a href="#">virtualGateway</a>		
			<a href="#">virtualNode</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">virtualRouter</a>		
			<a href="#">virtualService</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to delete a tag from a resource	Tagging	<a href="#">gatewayRoute</a>		
			<a href="#">mesh</a>		
			<a href="#">route</a>		
			<a href="#">virtualGateway</a>		
			<a href="#">virtualNode</a>		
			<a href="#">virtualRouter</a>		
			<a href="#">virtualService</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateGatewayRoute</a>	Grants permission to update an existing gateway route for a specified service mesh and virtual gateway	Write	<a href="#">gatewayRoute*</a>		
			<a href="#">virtualService</a>		
<a href="#">UpdateMesh</a>	Grants permission to update an existing service mesh	Write	<a href="#">mesh*</a>		
<a href="#">UpdateRoute</a>	Grants permission to update an existing route for a specified service mesh and virtual router	Write	<a href="#">route*</a>		
			<a href="#">virtualNode</a>		
<a href="#">UpdateVirtualGateway</a>	Grants permission to update an existing virtual gateway in a specified service mesh	Write	<a href="#">virtualGateway*</a>		
<a href="#">UpdateVirtualNode</a>	Grants permission to update an existing virtual node in a specified service mesh	Write	<a href="#">virtualNode*</a>		
<a href="#">UpdateVirtualRouter</a>	Grants permission to update an existing virtual router in a specified service mesh	Write	<a href="#">virtualRouter*</a>		
<a href="#">UpdateVirtualService</a>	Grants permission to update an existing virtual service in a specified service mesh	Write	<a href="#">virtualService*</a>		
			<a href="#">virtualNode</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">virtualRouter</a>		

## Resource types defined by AWS App Mesh

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">mesh</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">virtualService</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}/virtualService/\${VirtualServiceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">virtualNode</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}/virtualNode/\${VirtualNodeName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">virtualRouter</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}/virtualRouter/\${VirtualRouterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">route</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}/virtualRo	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
	uter/\${VirtualRouterName}/route/\${RouteName}	
<a href="#">virtualGateway</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}/virtualGateway/\${VirtualGatewayName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">gatewayRoute</a>	arn:\${Partition}:appmesh:\${Region}:\${Account}:mesh/\${MeshName}/virtualGateway/\${VirtualGatewayName}/gatewayRoute/\${GatewayRouteName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS App Mesh

AWS App Mesh defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS App Mesh Preview

AWS App Mesh Preview (service prefix: `appmesh-preview`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS App Mesh Preview](#)
- [Resource types defined by AWS App Mesh Preview](#)
- [Condition keys for AWS App Mesh Preview](#)

## Actions defined by AWS App Mesh Preview

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGatewayRoute</a>	Grants permission to create a gateway route that is associated with a virtual gateway	Write	<a href="#">gatewayRoute*</a> <a href="#">virtualService</a>		
<a href="#">CreateMesh</a>	Grants permission to create a service mesh	Write	<a href="#">mesh*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRoute</a>	Grants permission to create a route that is associated with a virtual router	Write	<a href="#">route*</a> <a href="#">virtualNode</a>		
<a href="#">CreateVirtualGateway</a>	Grants permission to create a virtual gateway within a service mesh	Write	<a href="#">virtualGateway*</a>		
<a href="#">CreateVirtualNode</a>	Grants permission to create a virtual node within a service mesh	Write	<a href="#">virtualNode*</a> <a href="#">virtualService</a>		
<a href="#">CreateVirtualRouter</a>	Grants permission to create a virtual router within a service mesh	Write	<a href="#">virtualRouter*</a>		
<a href="#">CreateVirtualService</a>	Grants permission to create a virtual service within a service mesh	Write	<a href="#">virtualService*</a> <a href="#">virtualNode</a> <a href="#">virtualRouter</a>		
<a href="#">DeleteGatewayRoute</a>	Grants permission to delete an existing gateway route	Write	<a href="#">gatewayRoute*</a>		
<a href="#">DeleteMesh</a>	Grants permission to delete an existing service mesh	Write	<a href="#">mesh*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMeshPolicy</a> [permission only]	Grants permission to delete the RAM access control policy for a mesh	Write	<a href="#">mesh*</a>		
<a href="#">DeleteRoute</a>	Grants permission to delete an existing route	Write	<a href="#">route*</a>		
<a href="#">DeleteVirtualGateway</a>	Grants permission to delete an existing virtual gateway	Write	<a href="#">virtualGateway*</a>		
<a href="#">DeleteVirtualNode</a>	Grants permission to delete an existing virtual node	Write	<a href="#">virtualNode*</a>		
<a href="#">DeleteVirtualRouter</a>	Grants permission to delete an existing virtual router	Write	<a href="#">virtualRouter*</a>		
<a href="#">DeleteVirtualService</a>	Grants permission to delete an existing virtual service	Write	<a href="#">virtualService*</a>		
<a href="#">DescribeGatewayRoute</a>	Grants permission to describe an existing gateway route	Read	<a href="#">gatewayRoute*</a>		
<a href="#">DescribeMesh</a>	Grants permission to describe an existing service mesh	Read	<a href="#">mesh*</a>		
<a href="#">DescribeRoute</a>	Grants permission to describe an existing route	Read	<a href="#">route*</a>		
<a href="#">DescribeVirtualGateway</a>	Grants permission to describe an existing virtual gateway	Read	<a href="#">virtualGateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVirtualNode</a>	Grants permission to describe an existing virtual node	Read	<a href="#">virtualNode*</a>		
<a href="#">DescribeVirtualRouter</a>	Grants permission to describe an existing virtual router	Read	<a href="#">virtualRouter*</a>		
<a href="#">DescribeVirtualService</a>	Grants permission to describe an existing virtual service	Read	<a href="#">virtualService*</a>		
<a href="#">GetMeshPolicy</a> [permission only]	Grants permission to read the RAM access control policy for a mesh	Read	<a href="#">mesh*</a>		
<a href="#">ListGroupRoutes</a>	Grants permission to list existing gateway routes in a service mesh	List	<a href="#">virtualGateway*</a>		
<a href="#">ListMeshes</a>	Grants permission to list existing service meshes	List			
<a href="#">ListRoutes</a>	Grants permission to list existing routes in a service mesh	List	<a href="#">virtualRouter*</a>		
<a href="#">ListVirtualGateways</a>	Grants permission to list existing virtual gateways in a service mesh	List	<a href="#">mesh*</a>		
<a href="#">ListVirtualNodes</a>	Grants permission to list existing virtual nodes	List	<a href="#">mesh*</a>		
<a href="#">ListVirtualRouters</a>	Grants permission to list existing virtual routers in a service mesh	List	<a href="#">mesh*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListVirtualServices</a>	Grants permission to list existing virtual services in a service mesh	List	<a href="#">mesh*</a>		
<a href="#">PutMeshPolicy</a> [permission only]	Grants permission to define the RAM access control policy for a mesh	Write	<a href="#">mesh*</a>		
<a href="#">StreamAggregatedResources</a>	Grants permission to receive streamed resources for an App Mesh endpoint (VirtualNode/VirtualGateway)	Read	<a href="#">virtualGateway</a> <a href="#">virtualNode</a>		
<a href="#">UpdateGatewayRoute</a>	Grants permission to update an existing gateway route for a specified service mesh and virtual gateway	Write	<a href="#">gatewayRoute*</a> <a href="#">virtualService</a>		
<a href="#">UpdateMesh</a>	Grants permission to update an existing service mesh	Write	<a href="#">mesh*</a>		
<a href="#">UpdateRoute</a>	Grants permission to update an existing route for a specified service mesh and virtual router	Write	<a href="#">route*</a> <a href="#">virtualNode</a>		
<a href="#">UpdateVirtualGateway</a>	Grants permission to update an existing virtual gateway in a specified service mesh	Write	<a href="#">virtualGateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateVirtualNode</a>	Grants permission to update an existing virtual node in a specified service mesh	Write	<a href="#">virtualNode*</a>		
<a href="#">UpdateVirtualRouter</a>	Grants permission to update an existing virtual router in a specified service mesh	Write	<a href="#">virtualRouter*</a>		
<a href="#">UpdateVirtualService</a>	Grants permission to update an existing virtual service in a specified service mesh	Write	<a href="#">virtualService*</a>		
			<a href="#">virtualNode</a>		
			<a href="#">virtualRouter</a>		

## Resource types defined by AWS App Mesh Preview

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">mesh</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}	

Resource types	ARN	Condition keys
<a href="#">virtualService</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}/virtualService/\${VirtualServiceName}	
<a href="#">virtualNode</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}/virtualNode/\${VirtualNodeName}	
<a href="#">virtualRouter</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}/virtualRouter/\${VirtualRouterName}	
<a href="#">route</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}/virtualRouter/\${VirtualRouterName}/route/\${RouteName}	
<a href="#">virtualGateway</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}/virtualGateway/\${VirtualGatewayName}	
<a href="#">gatewayRoute</a>	arn:\${Partition}:appmesh-preview:\${Region}:\${Account}:mesh/\${MeshName}/virtualGateway/\${VirtualGatewayName}/gatewayRoute/\${GatewayRouteName}	

## Condition keys for AWS App Mesh Preview

App Mesh Preview has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS App Runner

AWS App Runner (service prefix: `apprunner`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS App Runner](#)
- [Resource types defined by AWS App Runner](#)
- [Condition keys for AWS App Runner](#)

## Actions defined by AWS App Runner

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate CustomDomain</a>	Grants permission to associate your own domain name with the AWS App Runner subdomain URL of your App Runner service	Write	<a href="#">service*</a>		
<a href="#">Associate WebAcl</a> [permission only]	Grants permission to associate the service with an AWS WAF web ACL	Write	<a href="#">service*</a> <a href="#">webacl*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAutoScalingConfiguration</a>	Grants permission to create an AWS App Runner automatic scaling configuration resource	Write	<a href="#">autoscalingconfiguration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConnection</a>	Grants permission to create an AWS App Runner connection resource	Write	<a href="#">connection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateObservabilityConfiguration</a>	Grants permission to create an AWS App Runner observability configuration resource	Write	<a href="#">observabilityconfiguration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateService</a>	Grants permission to create an AWS App Runner service resource	Write	<a href="#">service*</a>		
			<a href="#">autoscalingconfiguration</a>		
			<a href="#">connection</a>		
			<a href="#">observabilityconfiguration</a>		
			<a href="#">vpconnector</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">apprunner:ConnectionArn</a>  <a href="#">apprunner:AutoScalingConfigurationArn</a>  <a href="#">apprunner:ObservabilityConfigurationArn</a>  <a href="#">apprunner:VpcConnectorArn</a>	
<a href="#">CreateVpcConnector</a>	Grants permission to create an AWS App Runner VPC connector resource	Write	<a href="#">vpconnector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateVpcIngressConnection</a>	Grants permission to create an AWS App Runner VpcIngressConnection resource	Write	<a href="#">vpcingressconnection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">apprunner:ServiceArn</a> <a href="#">apprunner:VpcId</a> <a href="#">apprunner:VpcEndpointId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAutoScalingConfiguration</a>	Grants permission to delete an AWS App Runner automatic scaling configuration resource	Write	<a href="#">autoscalingconfiguration*</a>		
<a href="#">DeleteConnection</a>	Grants permission to delete an AWS App Runner connection resource	Write	<a href="#">connection*</a>		
<a href="#">DeleteObservabilityConfiguration</a>	Grants permission to delete an AWS App Runner observability configuration resource	Write	<a href="#">observabilityconfiguration*</a>		
<a href="#">DeleteService</a>	Grants permission to delete an AWS App Runner service resource	Write	<a href="#">service*</a>		
<a href="#">DeleteVpcConnector</a>	Grants permission to delete an AWS App Runner VPC connector resource	Write	<a href="#">vpcconnector*</a>		
<a href="#">DeleteVpcIngressConnection</a>	Grants permission to delete an AWS App Runner VpcIngressConnection resource	Write	<a href="#">vpcingressconnection*</a>		
<a href="#">DescribeAutoScalingConfiguration</a>	Grants permission to retrieve the description of an AWS App Runner automatic scaling configuration resource	Read	<a href="#">autoscalingconfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCustomDomains</a>	Grants permission to retrieve descriptions of custom domain names associated with an AWS App Runner service	Read	<a href="#">service*</a>		
<a href="#">DescribeObservabilityConfiguration</a>	Grants permission to retrieve the description of an AWS App Runner observability configuration resource	Read	<a href="#">observabilityconfiguration*</a>		
<a href="#">DescribeOperation</a>	Grants permission to retrieve the description of an operation that occurred on an AWS App Runner service	Read	<a href="#">service*</a>		
<a href="#">DescribeService</a>	Grants permission to retrieve the description of an AWS App Runner service resource	Read	<a href="#">service*</a>		
<a href="#">DescribeVpcConnector</a>	Grants permission to retrieve the description of an AWS App Runner VPC connector resource	Read	<a href="#">vpcconnector*</a>		
<a href="#">DescribeVpcIngressConnection</a>	Grants permission to retrieve the description of an AWS App Runner VpcIngressConnection resource	Read	<a href="#">vpcingressconnection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWebAclForService</a> [permission only]	Grants permission to get the AWS WAF web ACL that is associated with an AWS App Runner service	Read	<a href="#">service*</a>		
<a href="#">DisassociateCustomDomain</a>	Grants permission to disassociate a custom domain name from an AWS App Runner service	Write	<a href="#">service*</a>		
<a href="#">DisassociateWebAcl</a> [permission only]	Grants permission to disassociate the service with an AWS WAF web ACL	Write	<a href="#">service*</a>		
<a href="#">ListAssociatedServicesForWebAcl</a> [permission only]	Grants permission to list the services that are associated with an AWS WAF web ACL	List	<a href="#">webacl*</a>		
<a href="#">ListAutomaticScalingConfigurations</a>	Grants permission to retrieve a list of AWS App Runner automatic scaling configurations in your AWS account	List			
<a href="#">ListConnections</a>	Grants permission to retrieve a list of AWS App Runner connections in your AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListObservabilityConfigurations</a>	Grants permission to retrieve a list of AWS App Runner observability configurations in your AWS account	List			
<a href="#">ListOperations</a>	Grants permission to retrieve a list of operations that occurred on an AWS App Runner service resource	List	<a href="#">service*</a>		
<a href="#">ListServices</a>	Grants permission to retrieve a list of running AWS App Runner services in your AWS account	List			
<a href="#">ListServicesForAutoScalingConfiguration</a>	Grants permission to retrieve a list of associated AppRunner services of an AWS App Runner automatic scaling configuration in your AWS account	List	<a href="#">autoscalingconfiguration*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags associated with an AWS App Runner resource	Read	<a href="#">autoscalingconfiguration</a>		
			<a href="#">connection</a>		
			<a href="#">observabilityconfiguration</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service</a>		
			<a href="#">vpconnector</a>		
<a href="#">ListVpcConnectors</a>	Grants permission to retrieve a list of AWS App Runner VPC connectors in your AWS account	List			
<a href="#">ListVpcIngressConnections</a>	Grants permission to retrieve a list of AWS App Runner VpcIngressConnections in your AWS account	List			
<a href="#">PauseService</a>	Grants permission to pause an active AWS App Runner service	Write	<a href="#">service*</a>		
<a href="#">ResumeService</a>	Grants permission to resume an active AWS App Runner service	Write	<a href="#">service*</a>		
<a href="#">StartDeployment</a>	Grants permission to initiate a manual deployment to an AWS App Runner service	Write	<a href="#">service*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to, or update tag values of, an AWS App Runner resource	Tagging	<a href="#">autoscalingconfiguration</a>		
			<a href="#">connection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">observabilityconfiguration</a>		
			<a href="#">service</a>		
			<a href="#">vpconnector</a>		
			<a href="#">vpcingressconnection</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an AWS App Runner resource	Tagging	<a href="#">autoscalingconfiguration</a>		
			<a href="#">connection</a>		
			<a href="#">observabilityconfiguration</a>		
			<a href="#">service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpcconnector</a>		
			<a href="#">vpcingressconnection</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDefaultAutoScalingConfiguration</a>	Grants permission to update an AWS App Runner automatic scaling configuration to be the default in your AWS account	Write	<a href="#">autoscalingconfiguration*</a>		
<a href="#">UpdateService</a>	Grants permission to update an AWS App Runner service resource	Write	<a href="#">service*</a>		
			<a href="#">autoscalingconfiguration</a>		
			<a href="#">connection</a>		
			<a href="#">observabilityconfiguration</a>		
			<a href="#">vpcconnector</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">apprunner:ConnectionArn</a> <a href="#">apprunner:AutoScalingConfigurationArn</a> <a href="#">apprunner:ObservabilityConfigurationArn</a> <a href="#">apprunner:VpcConnectorArn</a>	
<a href="#">UpdateVpcIngressConnection</a>	Grants permission to update an AWS App Runner VpcIngressConnection resource	Write	<a href="#">vpcingressconnection*</a>	<a href="#">apprunner:VpcId</a> <a href="#">apprunner:VpcEndpointId</a>	

## Resource types defined by AWS App Runner

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">service</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:service/\${ServiceName}/\${ServiceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connection</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:connection/\${ConnectionName}/\${ConnectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">autoscalingconfiguration</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:autoscalingconfiguration/\${AutoscalingConfigurationName}/\${AutoscalingConfigurationVersion}/\${AutoscalingConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">observabilityconfiguration</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:observabilityconfiguration/\${ObservabilityConfigurationName}/\${ObservabilityConfigurationVersion}/\${ObservabilityConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vpconnector</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:vpconnector/\${VpcConnectorName}/\${VpcConnectorVersion}/\${VpcConnectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vpcingressconnection</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:vpcingressconnection/\${V	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
	pcIngressConnectionName}/\${VpcIngressConnectionId}	
<a href="#">webacl</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/webacl/\${Name}/\${Id}	

## Condition keys for AWS App Runner

AWS App Runner defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">apprunner:AutoScalingConfigurationArn</a>	Filters access by the <code>CreateService</code> and <code>UpdateService</code> actions based on the ARN of an associated <code>AutoScalingConfiguration</code> resource	ARN
<a href="#">apprunner:ConnectionArn</a>	Filters access by the <code>CreateService</code> and <code>UpdateService</code> actions based on the ARN of an associated <code>Connection</code> resource	ARN
<a href="#">apprunner:ObservabilityConfigurationArn</a>	Filters access by the <code>CreateService</code> and <code>UpdateService</code> actions based on the ARN of an associated <code>ObservabilityConfiguration</code> resource	ARN
<a href="#">apprunner:ServiceArn</a>	Filters access by the <code>CreateVpcIngressConnection</code> action based on the ARN of an associated <code>Service</code> resource	ARN

Condition keys	Description	Type
<a href="#">apprunner:VpcConnectorArn</a>	Filters access by the CreateService and UpdateService actions based on the ARN of an associated VpcConnector resource	ARN
<a href="#">apprunner:VpcEndpointId</a>	Filters access by the CreateVpcIngressConnection and UpdateVpcIngressConnection actions based on the VPC Endpoint in the request	String
<a href="#">apprunner:VpcId</a>	Filters access by the CreateVpcIngressConnection and UpdateVpcIngressConnection actions based on the VPC in the request	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS App Studio

AWS App Studio (service prefix: appstudio) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS App Studio](#)

- [Resource types defined by AWS App Studio](#)
- [Condition keys for AWS App Studio](#)

## Actions defined by AWS App Studio

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountStatus</a> [permission only]	Grants permission to describe the account's current status	Read			
<a href="#">GetEnablementJobStatus</a> [permission only]	Grants permission to fetch status of a enablement job	Read			
<a href="#">StartEnablementJob</a> [permission only]	Grants permission to submit a enablement job	Write			
<a href="#">StartRollbackEnablementJob</a> [permission only]	Grants permission to rollback an enablement job	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTeamDeployment</a> [permission only]	Grants permission to start a team deployment	Write			

## Resource types defined by AWS App Studio

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">instance</a>	arn:\${Partition}:appstudio:\${Region}:\${Account}:instance/\${InstanceId}	
<a href="#">application</a>	arn:\${Partition}:appstudio:\${Region}:\${Account}:application/\${ApplicationId}	
<a href="#">connector</a>	arn:\${Partition}:appstudio:\${Region}:\${Account}:connector/\${ConnectionId}	

## Condition keys for AWS App Studio

App Studio has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS App2Container

AWS App2Container (service prefix: a2c) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS App2Container](#)
- [Resource types defined by AWS App2Container](#)
- [Condition keys for AWS App2Container](#)

### Actions defined by AWS App2Container

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetContainerizationJobDetails</a>	Grants permission to get the details of all Containerization jobs	Read			
<a href="#">GetDeploymentJobDetails</a>	Grants permission to get the details of all Deployment jobs	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartContainerizationJob</a>	Grants permission to start a Containerization job	Write			
<a href="#">StartDeploymentJob</a>	Grants permission to start a Deployment job	Write			

## Resource types defined by AWS App2Container

AWS App2Container does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS App2Container, specify "Resource": "\*" in your policy.

## Condition keys for AWS App2Container

App2Container has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS AppConfig

AWS AppConfig (service prefix: appconfig) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS AppConfig](#)

- [Resource types defined by AWS AppConfig](#)
- [Condition keys for AWS AppConfig](#)

## Actions defined by AWS AppConfig

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfigurationProfile</a>	Grants permission to create a configuration profile	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDeploymentStrategy</a>	Grants permission to create a deployment strategy	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateEnvironment</a>	Grants permission to create an environment	Write	<a href="#">application*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateExtension</a>	Grants permission to create an extension	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateExtensionAssociation</a>	Grants permission to create an extension association	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateHostedConfigurationVersion</a>	Grants permission to create a hosted configuration version	Write	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">configurationprofile*</a>		
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">application*</a>		
<a href="#">DeleteConfigurationProfile</a>	Grants permission to delete a configuration profile	Write	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		
<a href="#">DeleteDeploymentStrategy</a>	Grants permission to delete a deployment strategy	Write	<a href="#">deploymentstrategy*</a>		
<a href="#">DeleteEnvironment</a>	Grants permission to delete an environment	Write	<a href="#">application*</a>		
			<a href="#">environment*</a>		
<a href="#">DeleteExtension</a>	Grants permission to delete an extension	Write	<a href="#">extension*</a>		
<a href="#">DeleteExtensionAssociation</a>	Grants permission to delete an extension association	Write	<a href="#">extensionassociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteHostedConfigurationVersion</a>	Grants permission to delete a hosted configuration version	Write	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		
			<a href="#">hostedconfigurationversion*</a>		
<a href="#">GetAccountSettings</a>	Grants permission to view account-wide AppConfig settings	Read			
<a href="#">GetApplication</a>	Grants permission to view details about an application	Read	<a href="#">application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetConfiguration</a>	Grants permission to view details about a configuration	Read	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		
			<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetConfigurationProfile</a>	Grants permission to view details about a configuration profile	Read	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeployment</a>	Grants permission to view details about a deployment	Read	<a href="#">application*</a>		
			<a href="#">deployment*</a>		
			<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeploymentStrategy</a>	Grants permission to view details about a deployment strategy	Read	<a href="#">deploymentstrategy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEnvironment</a>	Grants permission to view details about an environment	Read	<a href="#">application*</a>		
			<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExtension</a>	Grants permission to view details about an extension	Read	<a href="#">extension*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExtensionAssociation</a>	Grants permission to view details about an extension association	Read	<a href="#">extensionassociation*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHostedConfigurationVersion</a>	Grants permission to view details about a hosted configuration version	Read	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		
			<a href="#">hostedconfigurationversion*</a>		
<a href="#">GetLatestConfiguration</a>	Grants permission to retrieve a deployed configuration	Read	<a href="#">configuration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListApplications</a>	Grants permission to list the applications in your account	List			
<a href="#">ListConfigurationProfiles</a>	Grants permission to list the configuration profiles for an application	List	<a href="#">application*</a>		
<a href="#">ListDeploymentStrategies</a>	Grants permission to list the deployment strategies for your account	List			
<a href="#">ListDeployments</a>	Grants permission to list the deployments for an environment	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEnvironments</a>	Grants permission to list the environments for an application	List	<a href="#">environment*</a> <a href="#">application*</a>		
<a href="#">ListExtensionAssociations</a>	Grants permission to list the extension associations in your account	List			
<a href="#">ListExtensions</a>	Grants permission to list the extensions in your account	List			
<a href="#">ListHostedConfigurationVersions</a>	Grants permission to list the hosted configuration versions for a configuration profile	List	<a href="#">application*</a> <a href="#">configurationprofile*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to view a list of resource tags for a specified resource	Read	<a href="#">application</a> <a href="#">configurationprofile</a> <a href="#">deployment</a> <a href="#">deploymentstrategy</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">environment</a>		
			<a href="#">extension</a>		
			<a href="#">extensionassociation</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartConfigurationSession</a>	Grants permission to start a configuration session	Write	<a href="#">configuration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartDeployment</a>	Grants permission to initiate a deployment	Write	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		
			<a href="#">deploymentstrategy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">environment*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopDeployment</a>	Grants permission to stop a deployment	Write	<a href="#">application*</a>		
			<a href="#">deployment*</a>		
			<a href="#">environment*</a>		
<a href="#">TagResource</a>	Grants permission to tag an appconfig resource	Tagging	<a href="#">application</a>		
			<a href="#">configuration</a>		
			<a href="#">configurationprofile</a>		
			<a href="#">deployment</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">deploymentstrategy</a>		
			<a href="#">environment</a>		
			<a href="#">extension</a>		
			<a href="#">extensionassociation</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an appconfig resource	Tagging	<a href="#">application</a>		
			<a href="#">configuration</a>		
			<a href="#">configurationprofile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">deployment</a>		
			<a href="#">deploymentstrategy</a>		
			<a href="#">environment</a>		
			<a href="#">extension</a>		
			<a href="#">extensionassociation</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountSettings</a>	Grants permission to modify account-wide AppConfig settings	Write			
<a href="#">UpdateApplication</a>	Grants permission to modify an application	Write	<a href="#">application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateConfigurationProfile</a>	Grants permission to modify a configuration profile	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">configurationprofile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDeploymentStrategy</a>	Grants permission to modify a deployment strategy	Write	<a href="#">deploymentstrategy*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateEnvironment</a>	Grants permission to modify an environment	Write	<a href="#">application*</a>		
			<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateExtension</a>	Grants permission to modify an extension	Write	<a href="#">extension*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateExtensionAssociation</a>	Grants permission to modify an extension association	Write	<a href="#">extensionassociation*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ValidateConfiguration</a>	Grants permission to validate a configuration	Write	<a href="#">application*</a>		
			<a href="#">configurationprofile*</a>		

## Resource types defined by AWS AppConfig

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">environment</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:application/\${ApplicationId}/environment/\${EnvironmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configurationprofile</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:application/\${ApplicationId}/configurationprofile/\${ConfigurationProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deploymentstrategy</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:deploymentstrategy/\${DeploymentStrategyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deployment</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:application/\${ApplicationId}/environment/\${EnvironmentId}/deployment/\${DeploymentNumber}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">hostedconfigurationversion</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:application/\${ApplicationId}/configurationprofile/\${ConfigurationProfileId}	
<a href="#">configuration</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:application/\${ApplicationId}/environment/\${EnvironmentId}/configuration/\${ConfigurationProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">extension</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:extension/\${ExtensionId}/\${ExtensionVersionNumber}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">extension association</a>	arn:\${Partition}:appconfig:\${Region}:\${Account}:extensionassociation/\${ExtensionAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS AppConfig

AWS AppConfig defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for a specified tag	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key-value pair assigned to the AWS resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS AppFabric

AWS AppFabric (service prefix: `appfabric`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS AppFabric](#)
- [Resource types defined by AWS AppFabric](#)
- [Condition keys for AWS AppFabric](#)

## Actions defined by AWS AppFabric

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetUserAccessTasks</a>	Grants permission to start user access tasks for multiple users	Write	<a href="#">appbundle</a> *		
<a href="#">ConnectAppAuthorization</a>	Grants permission to connect app authorizations	Write	<a href="#">appauthorization*</a>  <a href="#">appbundle</a> *		
<a href="#">CreateAppAuthorization</a>	Grants permission to create app authorizations for app bundles	Write	<a href="#">appbundle</a> *		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAppBundle</a>	Grants permission to create app bundles in your account	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIngestion</a>	Grants permission to create ingestions for app bundles	Write	<a href="#">appbundle*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIngestionDestination</a>	Grants permission to create ingestion destinations for app bundles	Write	<a href="#">appbundle*</a> <a href="#">ingestion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteApp Authorization</a>	Grants permission to delete app authorizations within an app bundle	Write	<a href="#">appauthorization*</a> <a href="#">appbundle*</a> -		
<a href="#">DeleteApp Bundle</a>	Grants permission to delete app bundles in your account	Write	<a href="#">appbundle*</a> -		
<a href="#">DeleteIngestion</a>	Grants permission to delete ingestions within an app bundle	Write	<a href="#">appbundle*</a> -		
			<a href="#">ingestion*</a> -		
<a href="#">DeleteIngestionDestination</a>	Grants permission to delete destinations within an ingestion	Write	<a href="#">appbundle*</a> -		
			<a href="#">ingestion*</a> -		
			<a href="#">ingestiondestination*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAppAuthorization</a>	Grants permission to view details about app authorizations	Read	<a href="#">appauthorization*</a>		
			<a href="#">appbundle*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAppBundle</a>	Grants permission to view details about app bundles	Read	<a href="#">appbundle*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetIngestion</a>	Grants permission to view details about ingestions	Read	<a href="#">appbundle*</a>		
			<a href="#">ingestion*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetIngestionDestination</a>	Grants permission to view details about ingestion destinations	Read	<a href="#">appbundle*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ingestion*</a>		
			<a href="#">ingestion/destination*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAppAuthorizations</a>	Grants permission to retrieve a list of app authorizations within an app bundle	List	<a href="#">appbundle*</a>		
<a href="#">ListAppBundles</a>	Grants permission to retrieve a list of app bundles in your account	List			
<a href="#">ListIngestionDestinations</a>	Grants permission to retrieve a list of destinations within an ingestion	List	<a href="#">appbundle*</a>		
			<a href="#">ingestion*</a>		
<a href="#">ListIngestions</a>	Grants permission to retrieve a list of ingestions within an app bundle	List	<a href="#">appbundle*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for AppFabric resources	Read	<a href="#">appauthorization</a>		
			<a href="#">appbundle</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ingestion</a>		
			<a href="#">ingestion</a> <a href="#">destinati</a> <a href="#">on</a>		
<a href="#">StartIngestion</a>	Grants permission to start ingestions	Write	<a href="#">appbundle</a> * -		
			<a href="#">ingestion</a> * -		
<a href="#">StartUserAccessTasks</a>	Grants permission to start user access tasks	Write	<a href="#">appbundle</a> * -		
<a href="#">StopIngestion</a>	Grants permission to stop ingestions	Write	<a href="#">appbundle</a> * -		
			<a href="#">ingestion</a> * -		
<a href="#">TagResource</a>	Grants permission to tag AppFabric resources	Tagging	<a href="#">appauthor</a> <a href="#">ization</a>		
			<a href="#">appbundle</a>		
			<a href="#">ingestion</a>		
			<a href="#">ingestion</a> <a href="#">destinati</a> <a href="#">on</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag AppFabric resources	Tagging	<a href="#">appauthorization</a> <a href="#">appbundle</a> <a href="#">ingestion</a> <a href="#">ingestiondestination</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAppAuthorization</a>	Grants permission to update app authorizations within app bundles	Write	<a href="#">appauthorization*</a> <a href="#">appbundle*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateIngestionDestination</a>	Grants permission to update destinations within ingestions	Write	<a href="#">appbundle*</a> <a href="#">ingestion*</a> <a href="#">ingestiondestination*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS AppFabric

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">appbundle</a>	arn:\${Partition}:appfabric:\${Region}:\${Account}:appbundle/\${AppBundleIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">appauthorization</a>	arn:\${Partition}:appfabric:\${Region}:\${Account}:appbundle/\${AppbundleId}/appauthorization/\${AppAuthorizationIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ingestion</a>	arn:\${Partition}:appfabric:\${Region}:\${Account}:appbundle/\${AppbundleId}/ingestion/\${IngestionIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ingestiondestination</a>	arn:\${Partition}:appfabric:\${Region}:\${Account}:appbundle/\${AppbundleId}/ingestion/\${IngestionIdentifier}/ingestiondestination/\${IngestionDestinationIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS AppFabric

AWS AppFabric defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String



Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon AppFlow

Amazon AppFlow (service prefix: `appflow`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon AppFlow](#)
- [Resource types defined by Amazon AppFlow](#)
- [Condition keys for Amazon AppFlow](#)

## Actions defined by Amazon AppFlow

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelFlowExecutions</a>	Grants permission to cancel in-progress executions of an Amazon AppFlow flow	Write	<a href="#">flow*</a>		
<a href="#">CreateConnectorProfile</a>	Grants permission to create a login profile to be used with Amazon AppFlow flows	Write			
<a href="#">CreateFlow</a>	Grants permission to create an Amazon AppFlow flow	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConnectorProfile</a>	Grants permission to delete a login profile configured in Amazon AppFlow	Write	<a href="#">connector profile*</a>		
<a href="#">DeleteFlow</a>	Grants permission to delete an Amazon AppFlow flow	Write	<a href="#">flow*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeConnector</a>	Grants permission to describe a connector registered in Amazon AppFlow	Read	<a href="#">connector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeConnectorEntity</a>	Grants permission to describe all fields for an object in a login profile configured in Amazon AppFlow	Read	<a href="#">connector profile*</a>		
<a href="#">DescribeConnectorFields</a> [permission only]	Grants permission to describe all fields for an object in a login profile configured in Amazon AppFlow (Console Only)	Read	<a href="#">connector profile*</a>		
<a href="#">DescribeConnectorProfiles</a>	Grants permission to describe all login profiles configured in Amazon AppFlow	Read			
<a href="#">DescribeConnectors</a>	Grants permission to describe all connectors supported by Amazon AppFlow	Read			
<a href="#">DescribeFlow</a>	Grants permission to describe a specific flow configured in Amazon AppFlow	Read	<a href="#">flow*</a>		
<a href="#">DescribeFlowExecution</a> [permission only]	Grants permission to describe all flow executions for a flow configured in Amazon AppFlow (Console Only)	Read	<a href="#">flow*</a>		
<a href="#">DescribeFlowExecutionRecords</a>	Grants permission to describe all flow executions for a flow configured in Amazon AppFlow	Read	<a href="#">flow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFlows</a> [permission only]	Grants permission to describe all flows configured in Amazon AppFlow (Console Only)	Read			
<a href="#">ListConnectorEntities</a>	Grants permission to list all objects for a login profile configured in Amazon AppFlow	List	<a href="#">connector profile*</a>		
<a href="#">ListConnectorFields</a> [permission only]	Grants permission to list all objects for a login profile configured in Amazon AppFlow (Console Only)	Read	<a href="#">connector profile*</a>		
<a href="#">ListConnectors</a>	Grants permission to list all connectors supported in Amazon AppFlow	List	<a href="#">connector*</a>		
<a href="#">ListFlows</a>	Grants permission to list all flows configured in Amazon AppFlow	List	<a href="#">flow*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a flow	Read	<a href="#">flow*</a>		
<a href="#">RegisterConnector</a>	Grants permission to register an Amazon AppFlow connector	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetConnectorMetadataCache</a>	Grants permission to resets metadata of connector entities that Amazon AppFlow stored in its cache	Write	<a href="#">connector profile*</a>		
<a href="#">RunFlow</a> [permission only]	Grants permission to run a flow configured in Amazon AppFlow (Console Only)	Write	<a href="#">flow*</a>		
<a href="#">StartFlow</a>	Grants permission to activate (for scheduled and event-triggered flows) or run (for on-demand flows) a flow configured in Amazon AppFlow	Write	<a href="#">flow*</a>		
<a href="#">StopFlow</a>	Grants permission to deactivate a scheduled or event-triggered flow configured in Amazon AppFlow	Write	<a href="#">flow*</a>		
<a href="#">TagResource</a>	Grants permission to tag a flow or a connector	Tagging	<a href="#">connector</a>		
			<a href="#">flow</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnRegisterConnector</a>	Grants permission to un-register a connector in Amazon AppFlow	Write	<a href="#">connector</a> *		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a flow or a connector	Tagging	<a href="#">connector</a>  <a href="#">flow</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnectorProfile</a>	Grants permission to update a login profile configured in Amazon AppFlow	Write	<a href="#">connector</a> <a href="#">profile*</a>		
<a href="#">UpdateConnectorRegistration</a>	Grants permission to update a registered connector configured in Amazon AppFlow	Write	<a href="#">connector</a> *		
<a href="#">UpdateFlow</a>	Grants permission to update a flow configured in Amazon AppFlow	Write	<a href="#">flow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UseConnectorProfile</a> [permission only]	Grants permission to use a connector profile while creating a flow in Amazon AppFlow	Write	<a href="#">connectorprofile*</a>		

## Resource types defined by Amazon AppFlow

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connectorprofile</a>	arn:\${Partition}:appflow:\${Region}:\${Account}:connectorprofile/\${ProfileName}	
<a href="#">flow</a>	arn:\${Partition}:appflow:\${Region}:\${Account}:flow/\${FlowName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connector</a>	arn:\${Partition}:appflow:\${Region}:\${Account}:connector/\${ConnectorLabel}	<a href="#">aws:ResourceTag/\${TagKey}</a>



## Condition keys for Amazon AppFlow

Amazon AppFlow defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon AppIntegrations

Amazon AppIntegrations (service prefix: `app-integrations`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon AppIntegrations](#)
- [Resource types defined by Amazon AppIntegrations](#)
- [Condition keys for Amazon AppIntegrations](#)

## Actions defined by Amazon AppIntegrations

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create a new Application	Write	<a href="#">application*</a>		iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateApplicationAssociation</a> [permission only]	Grants permission to create an ApplicationAssociation	Write	<a href="#">application*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataIntegration</a>	Grants permission to create a new DataIntegration	Write	<a href="#">data-integration*</a>		appflow:DeleteFlow  appflow:DescribeConnectorProfiles  iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy  kms:CreateGrant  profile:GetDomain  profile:GetProfileObjectType  s3:GetBucketNotification

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:GetEncryptionConfiguration  s3:PutBucketNotification
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataIntegrationAssociation</a>	Grants permission to create a DataIntegrationAssociation	Write	<a href="#">data-integration*</a>		appflow:CreateFlow appflow:DeleteFlow appflow:DescribeConnectorEntity appflow:DescribeConnectorProfiles appflow:TagResource appflow:UseConnectorProfile profile:CreateSnapshot profile:GetSnapshot

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataIntegrationSchedule</a>	Grants permission to create a data integration schedule	Write	<a href="#">data-integration*</a>		
<a href="#">CreateEventIntegration</a>	Grants permission to create a new EventIntegration	Write	<a href="#">event-integration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	<a href="#">iam:AttachRolePolicy</a> <a href="#">iam:CreateServiceLinkedRole</a> <a href="#">iam:PutRolePolicy</a>



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEventIntegrationAssociation</a> [permission only]	Grants permission to create an EventIntegrationAssociation	Write	<a href="#">event-integration*</a>		events:PutRule  events:PutTargets
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete an Application	Write	<a href="#">application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteApplicationAssociation</a> [permission only]	Grants permission to delete an ApplicationAssociation	Write	<a href="#">application-association*</a>		
<a href="#">DeleteDataIntegration</a>	Grants permission to delete a DataIntegration	Write	<a href="#">data-integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDataIntegrationAssociation</a> [permission only]	Grants permission to delete a DataIntegrationAssociation	Write	<a href="#">data-integration-association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	appflow:CreateFlow  appflow:DeleteFlow  appflow:DescribeConnectorEntity  appflow:DescribeConnectorProfiles  appflow:StopFlow  appflow:TagResource  appflow:UseConnectorProfile
<a href="#">DeleteEventIntegration</a>	Grants permission to delete an EventIntegration	Write	<a href="#">event-integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEventIntegrationAssociation</a> [permission only]	Grants permission to delete an EventIntegrationAssociation	Write	<a href="#">event-integration-association*</a>		events:DeleteRule  events:ListTargetsByRule  events:RemoveTargets
<a href="#">GetApplication</a>	Grants permission to view details about Application	Read	<a href="#">application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDataIntegration</a>	Grants permission to view details about DataIntegrations	Read	<a href="#">data-integration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDataIntegrationExecution</a>	Grants permission to get details about a data integration on execution	Read	<a href="#">data-integration*</a>		
<a href="#">GetDataIntegrationSchedule</a>	Grants permission to get details about a data integration on schedule	Read	<a href="#">data-integration*</a>		
<a href="#">GetEventIntegration</a>	Grants permission to view details about EventIntegrations	Read	<a href="#">event-integration*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListApplicationAssociations</a>	Grants permission to list ApplicationAssociations	List			
<a href="#">ListApplications</a>	Grants permission to list Applications	List			
<a href="#">ListDataIntegrationAssociations</a>	Grants permission to list DataIntegrationAssociations	List			
<a href="#">ListDataIntegrationExecutions</a>	Grants permission to list data integration executions	List	<a href="#">data-integration*</a>		
<a href="#">ListDataIntegrationSchedules</a>	Grants permission to list data integration schedules	List	<a href="#">data-integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDataIntegrations</a>	Grants permission to list DataIntegrations	List			
<a href="#">ListEventIntegrationAssociations</a>	Grants permission to list EventIntegrationAssociations	Read			
<a href="#">ListEventIntegrations</a>	Grants permission to list EventIntegrations	List			
<a href="#">ListTagsForResource</a>	Grants permission to lists tag for an Amazon AppIntegration resource	Read	<a href="#">application</a>		
			<a href="#">data-integration</a>		
			<a href="#">data-integration-association</a>		
			<a href="#">event-integration</a>		
			<a href="#">event-integration-association</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDataIntegrationExecution</a>	Grants permission to start a data integration execution	Write	<a href="#">data-integration*</a>		profile:C createSegmentSnapshot  profile:C createSnapshot
<a href="#">TagResource</a>	Grants permission to tag an Amazon AppIntegration resource	Tagging	<a href="#">application</a>		
			<a href="#">application-association</a>		
			<a href="#">data-integration</a>		
			<a href="#">data-integration-association</a>		
			<a href="#">event-integration</a>		
			<a href="#">event-integration-association</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Amazon AppIntegration resource	Tagging	<a href="#">application</a> <a href="#">application-association</a> <a href="#">data-integration</a> <a href="#">data-integration-association</a> <a href="#">event-integration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">event-integration-association</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateApplication</a>	Grants permission to modify an Application	Write	<a href="#">application*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDataIntegration</a>	Grants permission to modify a DataIntegration	Write	<a href="#">data-integration*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataIntegrationAssociation</a>	Grants permission to modify a DataIntegrationAssociation	Write	<a href="#">data-integration-association*</a>		profile:CreateSnapshot  profile:GetSnapshot
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDataIntegrationSchedule</a>	Grants permission to update a data integration schedule	Write	<a href="#">data-integration*</a>		
<a href="#">UpdateEventIntegration</a>	Grants permission to modify an EventIntegration	Write	<a href="#">event-integration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon AppIntegrations

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">event-integration</a>	arn:\${Partition}:app-integrations:\${Region}:\${Account}:event-integration/\${EventIntegrationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">event-integration-association</a>	arn:\${Partition}:app-integrations:\${Region}:\${Account}:event-integration-association/\${EventIntegrationName}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">data-integration</a>	arn:\${Partition}:app-integrations:\${Region}:\${Account}:data-integration/\${DataIntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">data-integration-association</a>	arn:\${Partition}:app-integrations:\${Region}:\${Account}:data-integration-association/\${DataIntegrationId}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application</a>	arn:\${Partition}:app-integrations:\${Region}:\${Account}:application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application-association</a>	arn:\${Partition}:app-integrations:\${Region}:\${Account}:application-association/\${ApplicationId}/\${ApplicationAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon AppIntegrations

Amazon AppIntegrations defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Application Auto Scaling

AWS Application Auto Scaling (service prefix: `application-autoscaling`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Application Auto Scaling](#)
- [Resource types defined by AWS Application Auto Scaling](#)
- [Condition keys for AWS Application Auto Scaling](#)

## Actions defined by AWS Application Auto Scaling

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteScalingPolicy</a>	Grants permission to delete a scaling policy	Write	<a href="#">ScalableTarget*</a>	<a href="#">application-autoscaling:service-name-space</a> <a href="#">application-autoscaling:scalable-dimension</a>	
<a href="#">DeleteScheduledAction</a>	Grants permission to delete a scheduled action	Write	<a href="#">ScalableTarget*</a>	<a href="#">application-autoscaling:service-name-space</a> <a href="#">application-autoscaling:</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aling:scalable-dimension</a>	
<a href="#">DeregisterScalableTarget</a>	Grants permission to deregister a scalable target	Write	<a href="#">ScalableTarget*</a>	<a href="#">application-autoscaling:service-name-space</a> <a href="#">application-autoscaling:scalable-dimension</a>	
<a href="#">DescribeScalableTargets</a>	Grants permission to describe one or more scalable targets in the specified namespace	Read			
<a href="#">DescribeScalingActivities</a>	Grants permission to describe a set of scaling activities or all scaling activities in the specified namespace	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeScalingPolicies</a>	Grants permission to describe a set of scaling policies or all scaling policies in the specified namespace	Read			
<a href="#">DescribeScheduledActions</a>	Grants permission to describe a set of scheduled actions or all scheduled actions in the specified namespace	Read			
<a href="#">GetPredictiveScalingForecast</a>	Grants permission to retrieve the forecast data for a predictive scaling policy	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a scalable target	Read	<a href="#">ScalableTarget*</a>		
<a href="#">PutScalingPolicy</a>	Grants permission to create and update a scaling policy for a scalable target	Write	<a href="#">ScalableTarget*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">application-autoscaling:service-name-space</a>  <a href="#">application-autoscaling:scalable-dimension</a>	
<a href="#">PutScheduledAction</a>	Grants permission to create and update a scheduled action for a scalable target	Write	<a href="#">ScalableTarget*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">application-autoscaling:service-name-space</a>  <a href="#">application-autoscaling:scalable-dimension</a>	
<a href="#">RegisterScalableTarget</a>	Grants permission to register AWS or custom resources as scalable targets with Application Auto Scaling and to update configuration parameters used to manage a scalable target	Write	<a href="#">ScalableTarget*</a>		<a href="#">application-autoscaling:TagResource</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">application-autoscaling:service-name-space</a> <a href="#">application-autoscaling:scalable-dimension</a>	
<a href="#">TagResource</a>	Grants permission to tag a scalable target	Tagging	<a href="#">ScalableTarget*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a scalable target	Tagging	<a href="#">ScalableTarget*</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Application Auto Scaling

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">ScalableTarget</a>	arn:\${Partition}:application-autoscaling:\${Region}:\${Account}:scalable-target/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Application Auto Scaling

AWS Application Auto Scaling defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">application-autoscaling:scalable-dimension</a>	Filters access by the scalable dimension that is passed in the request	String
<a href="#">application-autoscaling:service-namespace</a>	Filters access by the service namespace that is passed in the request	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Application Discovery Arsenal

Application Discovery Arsenal (service prefix: `arsenal`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Application Discovery Arsenal](#)
- [Resource types defined by Application Discovery Arsenal](#)
- [Condition keys for Application Discovery Arsenal](#)

## Actions defined by Application Discovery Arsenal

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterOnPremisesAgent</a> [permission only]	Grants permission to register AWS provided data collectors to the Application Discovery Service	Write			

## Resource types defined by Application Discovery Arsenal

Application Discovery Arsenal does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Application Discovery Arsenal, specify "Resource": "\*" in your policy.

## Condition keys for Application Discovery Arsenal

Application Discovery Arsenal has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

# Actions, resources, and condition keys for AWS Application Discovery Service

AWS Application Discovery Service (service prefix: `discovery`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Application Discovery Service](#)
- [Resource types defined by AWS Application Discovery Service](#)
- [Condition keys for AWS Application Discovery Service](#)

## Actions defined by AWS Application Discovery Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate ConfigurationItemsToApplication</a>	Grants permission to AssociateConfigurationItemsToApplication API. Associate ConfigurationItemsToApplication associates one or more configuration items with an application	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteAgents</a>	Grants permission to BatchDeleteAgents API. BatchDeleteAgents deletes one or more agents/data collectors associated with your account, each identified by its agent ID. Deleting a data collector does not delete the previous data collected	Write			
<a href="#">BatchDeleteImportData</a>	Grants permission to BatchDeleteImportData API. BatchDeleteImportData deletes one or more Migration Hub import tasks, each identified by their import ID. Each import task has a number of records, which can identify servers or applications	Write			
<a href="#">CreateApplication</a>	Grants permission to CreateApplication API. CreateApplication creates an application with the given name and description	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTags</a>	Grants permission to CreateTags API. CreateTags creates one or more tags for configuration items. Tags are metadata that help you categorize IT assets. This API accepts a list of multiple configuration items	Tagging			
<a href="#">DeleteApplications</a>	Grants permission to DeleteApplications API. DeleteApplications deletes a list of applications and their associations with configuration items	Write			
<a href="#">DeleteTags</a>	Grants permission to DeleteTags API. DeleteTags deletes the association between configuration items and one or more tags. This API accepts a list of multiple configuration items	Tagging		<a href="#">aws:TagKeys</a>	
<a href="#">DescribeAgents</a>	Grants permission to DescribeAgents API. DescribeAgents lists agents or the Connector by ID or lists all agents/Connectors associated with your user if you did not specify an ID	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBatchDeleteConfigurationTask</a>	<p>Grants permission to DescribeBatchDeleteConfigurationTask API. DescribeBatchDeleteConfigurationTask returns attributes about a batched deletion task to delete a set of configuration items. The supplied task ID should be the task ID received from the output of StartBatchDeleteConfigurationTask</p>	Read			
<a href="#">DescribeConfigurations</a>	<p>Grants permission to DescribeConfigurations API. DescribeConfigurations retrieves attributes for a list of configuration item IDs. All of the supplied IDs must be for the same asset type (server, application, process, or connection). Output fields are specific to the asset type selected. For example, the output for a server configuration item includes a list of attributes about the server, such as host name, operating system, and number of network cards</p>	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeContinuousExports</a>	Grants permission to DescribeContinuousExports API. DescribeContinuousExports lists exports as specified by ID. All continuous exports associated with your user can be listed if you call DescribeContinuousExports as is without passing any parameters	Read			
<a href="#">DescribeExportConfigurations</a>	Grants permission to DescribeExportConfigurations API. DescribeExportConfigurations retrieves the status of a given export process. You can retrieve status from a maximum of 100 processes	Read			
<a href="#">DescribeExportTasks</a>	Grants permission to DescribeExportTasks API. DescribeExportTasks retrieve status of one or more export tasks. You can retrieve the status of up to 100 export tasks	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImportTasks</a>	Grants permission to DescribeImportTasks API. DescribeImportTasks returns an array of import tasks for your user, including status information, times, IDs, the Amazon S3 Object URL for the import file, and more	List			
<a href="#">DescribeTags</a>	Grants permission to DescribeTags API. DescribeTags retrieves a list of configuration items that are tagged with a specific tag. Or retrieves a list of all tags assigned to a specific configuration item	Read			
<a href="#">DisassociateConfigurationItemsFromApplication</a>	Grants permission to DisassociateConfigurationItemsFromApplication API. DisassociateConfigurationItemsFromApplication disassociates one or more configuration items from an application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportConfigurations</a>	Grants permission to ExportConfigurations API. ExportConfigurations exports all discovered configuration data to an Amazon S3 bucket or an application that enables you to view and evaluate the data. Data includes tags and tag associations, processes , connections, servers, and system performance	Write			
<a href="#">GetDiscoverySummary</a>	Grants permission to GetDiscoverySummary API. GetDiscoverySummary retrieves a short summary of discovered assets	Read			
<a href="#">GetNetworkConnectionGraph</a>	Grants permission to GetNetworkConnectionGraph API. GetNetworkConnectionGraph accepts input list of one of - Ip Addresses, server ids or node ids. Returns a list of nodes and edges which help customer visualize network connection graph. This API is used for visualize network graph functionality in MigrationHub console	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConfigurations</a>	Grants permission to ListConfigurations API. ListConfigurations retrieves a list of configuration items according to criteria you specify in a filter. The filter criteria identify relationship requirements	List			
<a href="#">ListServerNeighbors</a>	Grants permission to ListServerNeighbors API. ListServerNeighbors retrieves a list of servers which are one network hop away from a specified server	List			
<a href="#">StartBatchDeleteConfigurationTask</a>	Grants permission to StartBatchDeleteConfigurationTask API. StartBatchDeleteConfigurationTask starts an asynchronous batch deletion of your configuration items. All of the supplied IDs must be for the same asset type (server, application, process, or connection). Output is a unique task ID you can use to check back on the deletions progress	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartContinuousExport</a>	Grants permission to StartContinuousExport API. StartContinuousExport start the continuous flow of agent's discovered data into Amazon Athena	Write			iam:AttachRolePolicy  iam:CreatePolicy  iam:CreateRole  iam:CreateServiceLinkedRole
<a href="#">StartDataCollectionByAgentIds</a>	Grants permission to StartDataCollectionByAgentIds API. StartDataCollectionByAgentIds instructs the specified agents or Connectors to start collecting data	Write			
<a href="#">StartExportTask</a>	Grants permission to StartExportTask API. StartExportTask export the configuration data about discovered configuration items and relationships to an S3 bucket in a specified format	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartImportTask</a>	<p>Grants permission to StartImportTask API. StartImportTask starts an import task. The Migration Hub import feature allows you to import details of your on-premises environment directly into AWS without having to use the Application Discovery Service (ADS) tools such as the Discovery Connector or Discovery Agent. This gives you the option to perform migration assessment and planning directly from your imported data including the ability to group your devices as applications and track their migration status</p>	Write			<p>discovery:AssociateConfigurationItemsToApplication</p> <p>discovery:CreateApplication</p> <p>discovery:CreateTags</p> <p>discovery:GetDiscoverySummary</p> <p>discovery:ListConfigurations</p> <p>s3:GetObject</p>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopContinuousExport</a>	Grants permission to StopContinuousExport API. StopContinuousExport stops the continuous flow of agent's discovered data into Amazon Athena	Write			
<a href="#">StopDataCollectionByAgentIds</a>	Grants permission to StopDataCollectionByAgentIds API. StopDataCollectionByAgentIds instructs the specified agents or Connectors to stop collecting data	Write			
<a href="#">UpdateApplication</a>	Grants permission to UpdateApplication API. UpdateApplication updates metadata about an application	Write			

## Resource types defined by AWS Application Discovery Service

AWS Application Discovery Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Application Discovery Service, specify "Resource": "\*" in your policy.

### Note

To separate access, create and use separate AWS accounts.

## Condition keys for AWS Application Discovery Service

AWS Application Discovery Service defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Application Migration Service

AWS Application Migration Service (service prefix: `mgn`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Application Migration Service](#)
- [Resource types defined by AWS Application Migration Service](#)
- [Condition keys for AWS Application Migration Service](#)

## Actions defined by AWS Application Migration Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ArchiveApplication</a>	Grants permission to archive an application	Write	<a href="#">ApplicationResource*</a>		
<a href="#">ArchiveWave</a>	Grants permission to archive a wave	Write	<a href="#">WaveResource*</a>		
<a href="#">AssociateApplications</a>	Grants permission to associate applications to a wave	Write	<a href="#">ApplicationResource*</a>		
			<a href="#">WaveResource*</a>		
<a href="#">AssociateSourceServers</a>	Grants permission to associate source servers to an application	Write	<a href="#">ApplicationResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">BatchCreateVolumeSnapshotGroupForMgn</a> [permission only]	Grants permission to create volume snapshot group	Write	<a href="#">SourceServerResource*</a>		
<a href="#">BatchDeleteSnapshotRequestForMgn</a>	Grants permission to batch delete snapshot request	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">ChangeServerLifecycleState</a>	Grants permission to change source server life cycle state	Write	<a href="#">SourceServerResource*</a>		
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConnector</a>	Grants permission to create connector	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLaunchConfigurationTemplate</a>	Grants permission to create launch configuration template	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNetworkMigrationDefinition</a>	Grants permission to create a network migration definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateReplicationConfigurationTemplate</a>	Grants permission to create replication configuration template	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateVcenterClientForMgmt</a> [permission only]	Grants permission to create vcenter client	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWave</a>	Grants permission to create a wave	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">ApplicationResource*</a>		
<a href="#">DeleteConnector</a>	Grants permission to delete connector	Write	<a href="#">ConnectorResource*</a>		
<a href="#">DeleteJob</a>	Grants permission to delete job	Write	<a href="#">JobResource*</a>		
<a href="#">DeleteLaunchConfigurationTemplate</a>	Grants permission to delete launch configuration template	Write	<a href="#">LaunchConfigurationTemplateResource*</a>		
<a href="#">DeleteNetworkMigrationDefinition</a>	Grants permission to delete a network migration definition	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">DeleteReplicationConfigurationTemplate</a>	Grants permission to delete replication configuration template	Write	<a href="#">ReplicationConfigurationTemplateResource*</a>		
<a href="#">DeleteSourceServer</a>	Grants permission to delete source server	Write	<a href="#">SourceServerResource*</a>		
<a href="#">DeleteVcenterClient</a>	Grants permission to delete vcenter client	Write	<a href="#">VcenterClientResource*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWave</a>	Grants permission to delete a wave	Write	<a href="#">WaveResource*</a>		
<a href="#">DescribeJobLogItems</a>	Grants permission to describe job log items	Read	<a href="#">JobResource*</a>		
<a href="#">DescribeJobs</a>	Grants permission to describe jobs	List			
<a href="#">DescribeLaunchConfigurationTemplates</a>	Grants permission to describe launch configuration template	List			
<a href="#">DescribeReplicationConfigurationTemplates</a>	Grants permission to describe replication configuration template	List			
<a href="#">DescribeReplicationServerAssociationsForMgn</a> [permission only]	Grants permission to describe replication server associations	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSnapshotRequestsForMgn</a> [permission only]	Grants permission to describe snapshots requests	Read			
<a href="#">DescribeSourceServers</a>	Grants permission to describe source servers	List			
<a href="#">DescribeVcenterClients</a>	Grants permission to describe vcenter clients	List			
<a href="#">DisassociateApplications</a>	Grants permission to disassociate applications from a wave	Write	<a href="#">ApplicationResource*</a>		
			<a href="#">WaveResource*</a>		
<a href="#">DisassociateSourceServers</a>	Grants permission to disassociate source servers from an application	Write	<a href="#">ApplicationResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">DisconnectFromService</a>	Grants permission to disconnect source server from service	Write	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">FinalizeCutover</a>	Grants permission to finalize cutover	Write	<a href="#">SourceServerResource*</a>		
<a href="#">GetAccountSettings</a>	Grants permission to get account settings	Read			
<a href="#">GetAgentCommandForMgn</a> [permission only]	Grants permission to get agent command	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetAgentConfirmedResumeInfoForMgn</a> [permission only]	Grants permission to get agent confirmed resume info	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetAgentInstallationAssetsForMgn</a> [permission only]	Grants permission to get agent installation assets	Read			
<a href="#">GetAgentReplicationInfoForMgn</a> [permission only]	Grants permission to get agent replication info	Read	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAgentRuntimeConfigurationForMgn</a> [permission only]	Grants permission to get agent runtime configuration	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetAgentSnapshotCreditsForMgn</a> [permission only]	Grants permission to get agent snapshots credits	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetChannelCommandsForMgn</a> [permission only]	Grants permission to get channel commands	Read			
<a href="#">GetLaunchConfiguration</a>	Grants permission to get launch configuration	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetNetworkMigrationDefinition</a>	Grants permission to get a network migration definition	Read	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">GetNetworkMigrationMapperSegmentConstruct</a>	Grants permission to get a network migration mapper segment construct	Read	<a href="#">NetworkMigrationDefinitionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetReplicationConfiguration</a>	Grants permission to get replication configuration	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetVcenterClientCommandsForMgn</a> [permission only]	Grants permission to get vcenter client commands	Read	<a href="#">VcenterClientResource*</a>		
<a href="#">InitializeService</a>	Grants permission to initialize service	Write			iam:AddRoleToInstanceProfile  iam:CreateInstanceProfile  iam:CreateServiceLinkedRole  iam:GetInstanceProfile
<a href="#">IssueClientCertificateForMgn</a> [permission only]	Grants permission to issue a client certificate	Write	<a href="#">SourceServerResource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplications</a>	Grants permission to list application summaries	List			
<a href="#">ListConnectors</a>	Grants permission to list connectors	Read			
<a href="#">ListExportErrors</a>	Grants permission to list the errors of an export task	List	<a href="#">ExportResource*</a>		
<a href="#">ListExports</a>	Grants permission to list export tasks	List			
<a href="#">ListImportErrors</a>	Grants permission to list the errors of an import task	List	<a href="#">ImportResource*</a>		
<a href="#">ListImportFileEnrichments</a>	Grants permission to list the import file enrichment tasks	List			
<a href="#">ListImports</a>	Grants permission to list the import tasks	List			
<a href="#">ListManagedAccounts</a>	Grants permission to list managed accounts	List			
<a href="#">ListNetworkMigrationAnalyses</a>	Grants permission to list network migration analyses	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationAnalysisResults</a>	Grants permission to list network migration analysis results	List	<a href="#">NetworkMigrationDefinitionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListNetworkMigrationCodeGenerationSegments</a>	Grants permission to list network migration code generation segments	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationCodeGenerations</a>	Grants permission to list network migration code generations	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationDefinitions</a>	Grants permission to list network migration definitions	List			
<a href="#">ListNetworkMigrationDeployedStacks</a>	Grants permission to list network migration deployed stacks	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationDeployedStacksDeletions</a>	Grants permission to list network migration deployed stacks deletions	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationDeployments</a>	Grants permission to list network migration deployments	List	<a href="#">NetworkMigrationDefinitionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListNetworkMigrationExecutions</a>	Grants permission to list network migration executions	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationMapperSegmentConstructs</a>	Grants permission to list network migration mapper segment constructs	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationMapperSegments</a>	Grants permission to list network migration mapper segments	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationMappingUpdates</a>	Grants permission to list network migration mapping updates	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListNetworkMigrationMappings</a>	Grants permission to list network migration mappings	List	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">ListSourceServerActions</a>	Grants permission to list source server action documents	List	<a href="#">SourceServerResource*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTemplateActions</a>	Grants permission to list launch configuration template action documents	List	<a href="#">LaunchConfigurationTemplateResource*</a>		
<a href="#">ListWaves</a>	Grants permission to list wave summaries	List			
<a href="#">MarkAsArchived</a>	Grants permission to mark source server as archived	Write	<a href="#">SourceServerResource*</a>		
<a href="#">NotifyAgentAuthenticationFormMgn</a> [permission only]	Grants permission to notify agent authentication	Write	<a href="#">SourceServerResource*</a>		
<a href="#">NotifyAgentConnectedForMgn</a> [permission only]	Grants permission to notify agent is connected	Write	<a href="#">SourceServerResource*</a>		
<a href="#">NotifyAgentDisconnectedForMgn</a> [permission only]	Grants permission to notify agent is disconnected	Write	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">NotifyAgentReplicationProgressForMgn</a> [permission only]	Grants permission to notify agent replication progress	Write	<a href="#">SourceServerResource*</a>		
<a href="#">NotifyVcenterClientStartedForMgn</a> [permission only]	Grants permission to notify vcenter client started	Write	<a href="#">VcenterClientResource*</a>		
<a href="#">PauseReplication</a>	Grants permission to pause replication	Write	<a href="#">SourceServerResource*</a>		
<a href="#">PutSourceServerAction</a>	Grants permission to put source server action document	Write	<a href="#">SourceServerResource*</a>		
<a href="#">PutTemplateAction</a>	Grants permission to put launch configuration template action document	Write	<a href="#">LaunchConfigurationTemplateResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterAgentForMgn</a> [permission only]	Grants permission to register agent	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">RemoveSourceServerAction</a>	Grants permission to remove source server action document	Write	<a href="#">SourceServerResource*</a>		
<a href="#">RemoveTemplateAction</a>	Grants permission to remove launch configuration template action document	Write	<a href="#">LaunchConfigurationTemplateResource*</a>		
<a href="#">ResumeReplication</a>	Grants permission to resume replication	Write	<a href="#">SourceServerResource*</a>		
<a href="#">RetryDataReplication</a>	Grants permission to retry replication	Write	<a href="#">SourceServerResource*</a>		
<a href="#">SendAgentLogsForMgn</a> [permission only]	Grants permission to send agent logs	Write	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendAgentMetricsForMgn</a> [permission only]	Grants permission to send agent metrics	Write	<a href="#">SourceServerResource*</a>		
<a href="#">SendChannelCommandResultForMgn</a> [permission only]	Grants permission to send channel command result	Write			
<a href="#">SendClientLogsForMgn</a> [permission only]	Grants permission to send client logs	Write			
<a href="#">SendClientMetricsForMgn</a> [permission only]	Grants permission to send client metrics	Write			
<a href="#">SendVcenterClientCommandResultForMgn</a> [permission only]	Grants permission to send vcenter client command result	Write	<a href="#">VcenterClientResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendVcenterClientLogsForMgn</a> [permission only]	Grants permission to send vcenter client logs	Write	<a href="#">VcenterClientResource*</a>		
<a href="#">SendVcenterClientMetricsForMgn</a> [permission only]	Grants permission to send vcenter client metrics	Write	<a href="#">VcenterClientResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartCutover</a>	Grants permission to start cutover	Write	<a href="#">SourceServerResource*</a>		ec2:AttachVolume ec2:AuthorizeSecurityGroupEgress ec2:AuthorizeSecurityGroupIngress ec2:CreateLaunchTemplate ec2:CreateLaunchTemplateVersion ec2:CreateSecurityGroup ec2:CreateSnapshot ec2:CreateTags ec2:CreateVolume

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteLaunchTemplateVersions ec2:DeleteSnapshot ec2:DeleteVolume ec2:DescribeAccountAttributes ec2:DescribeAvailabilityZones ec2:DescribeImages ec2:DescribeInstanceAttribute ec2:DescribeInstanceStatus

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeInstanceTypes ec2:DescribeInstances ec2:DescribeLaunchTemplateVersions ec2:DescribeLaunchTemplates ec2:DescribeSecurityGroups ec2:DescribeSnapshots ec2:DescribeSubnets ec2:DescribeVolumes



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DetachVolume ec2:ModifyInstanceAttribute ec2:ModifyLaunchTemplate ec2:ReportInstanceStatus ec2:RevokeSecurityGroupEgress ec2:RunInstances ec2:StartInstances ec2:StopInstances ec2:TerminateInstances iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					mgn:ListTagsForResource
<a href="#">StartExport</a>	Grants permission to start an export task	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:DescribeLaunchTemplateVersions mgn:DescribeSourceServers mgn:GetLaunchConfiguration mgn:ListApplications mgn:ListWaves s3:PutObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartImport</a>	Grants permission to create an import task	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateLaunchTemplateVersion  ec2:DescribeLaunchTemplateVersions  ec2:ModifyLaunchTemplate  mgn:DescribeSourceServers  mgn:GetLaunchConfiguration  mgn:ListApplications  mgn:ListWaves  mgn:TagResource  mgn:UpdateLaunchCo

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					nfigurati on  s3:PutObj ect
<a href="#">StartImportFileEnrichment</a>	Grants permission to start import file enrichment	Write			ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNetworkMigrationAnalysis</a>	Grants permission to start a network migration analysis	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		directconnect:DescribeConnections  directconnect:DescribeDirectConnectGatewayAssociations  directconnect:DescribeDirectConnectGatewayAttachments  directconnect:DescribeDirectConnectGateways  directconnect:DescribeVirtualGateways  directconnect:Describe

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ribeVirtualInterfaces ec2:AuthorizeSecurityGroupIngress ec2:CreateNetworkInsightsPath ec2:CreateNetworkInterface ec2:CreateSecurityGroup ec2:CreateTags ec2:DeleteNetworkInsightsAnalysis ec2:DeleteNetworkInsightsPath

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteNetworkInterface
					ec2:DeleteSecurityGroup
					ec2:DeleteTags
					ec2:DescribeAvailabilityZones
					ec2:DescribeCustomGateways
					ec2:DescribeInstances
					ec2:DescribeInternetGateways
					ec2:DescribeManagedPrefixLists

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeNatGateways
					ec2:DescribeNetworkAcls
					ec2:DescribeNetworkInsightsAnalyses
					ec2:DescribeNetworkInsightsPaths
					ec2:DescribeNetworkInterfaces
					ec2:DescribePrefixLists
					ec2:DescribeRegions
					ec2:DescribeRouteTables



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeSecurityGroups
					ec2:DescribeSubnets
					ec2:DescribeTransitGatewayAttachments
					ec2:DescribeTransitGatewayConnects
					ec2:DescribeTransitGatewayPeeringAttachments
					ec2:DescribeTransitGatewayRouteTables
					ec2:DescribeTransitGatewayV

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					pcAttachments
					ec2:DescribeTransitGateways
					ec2:DescribeVpcEndpointServiceConfigurations
					ec2:DescribeVpcEndpoints
					ec2:DescribeVpcPeeringConnections
					ec2:DescribeVpcs
					ec2:DescribeVpnConnections
					ec2:DescribeVpnGateways

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:GetManagedPrefixListEntries
					ec2:GetTransitGatewayRouteTablePropagations
					ec2:SearchTransitGatewayRoutes
					ec2:StartNetworkInsightsAnalysis
					elasticaloadbalancing:DescribeListeners
					elasticaloadbalancing:DescribeLoadBalancerAttributes

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					elasticloadbalancing:DescribeLoadBalancers
					elasticloadbalancing:DescribeRules
					elasticloadbalancing:DescribeTags
					elasticloadbalancing:DescribeTargetGroupAttributes
					elasticloadbalancing:DescribeTargetGroups
					elasticloadbalancing:Describe

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					beTargetHealth globalaccelerator: ListAccelerators globalaccelerator: ListCustomRoutingAccelerators globalaccelerator: ListCustomRoutingEndpointGroups globalaccelerator: ListCustomRoutingListeners globalaccelerator: ListCustomRoutingP

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					portMappings globalaccelerator:ListEndpointGroups globalaccelerator:ListListeners network-firewall:DescribeFirewall network-firewall:DescribeFirewallPolicy network-firewall:DescribeResourcePolicy network-firewall:DescribeRuleGroup

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					network-firewall:ListFirewallPolicies
					network-firewall:ListFirewalls
					network-firewall:ListRuleGroups
					tiros:CreateQuery
					tiros:ExtendQuery
					tiros:GetQueryAnswer
					tiros:GetQueryExplanation
					tiros:GetQueryExtensionAccounts

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNetworkMigrationCodeGeneration</a>	Grants permission to start network migration code generation	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNetworkMigrationDeployedStacksDeletion</a>	Grants permission to start deletion of network migration deployed stacks	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		ec2:AcceptTransitGatewayVpcAttachment  ec2:AssociateNatGatewayAddress  ec2:AssociateRouteTable  ec2:AssociateSubnetCidrBlock  ec2:AssociateTransitGatewayRouteTable  ec2:AssociateVpcCidrBlock  ec2:AttachInternetGateway

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:AttachVolume
					ec2:AuthorizeSecurityGroupEgress
					ec2:AuthorizeSecurityGroupIngress
					ec2:DeleteInternetGateway
					ec2:DeleteLaunchTemplate
					ec2:DeleteLaunchTemplateVersions
					ec2:DeleteNatGateway
					ec2:DeleteNetworkACL

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteNetworkACLEntry
					ec2:DeleteNetworkInsightsAnalysis
					ec2:DeleteNetworkInsightsPath
					ec2:DeleteNetworkInterface
					ec2:DeleteRoute
					ec2:DeleteRouteTable
					ec2:DeleteSecurityGroup
					ec2:DeleteSnapshot
					ec2:DeleteSubnet

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteTransitGateway
					ec2:DeleteTransitGatewayRoute
					ec2:DeleteTransitGatewayRouteTable
					ec2:DeleteTransitGatewayVpcAttachment
					ec2:DeleteVolume
					ec2:DeleteVpc
					ec2:DetachInternetGateway
					ec2:DetachVolume

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DisableTransitGatewayRouteTablePropagation
					ec2:DisassociateNatGatewayAddress
					ec2:DisassociateRouteTable
					ec2:DisassociateTransitGatewayRouteTable
					ec2:EnableTransitGatewayRouteTablePropagation
					ec2:ModifyInstanceAttribute

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ModifyLaunchTemplate
					ec2:ModifySubnetAttribute
					ec2:ModifyTransitGateway
					ec2:ModifyTransitGatewayVpcAttachment
					ec2:ModifyVolume
					ec2:ModifyVpcAttribute
					ec2:RejectTransitGatewayVpcAttachment
					ec2:ReleaseAddress

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ReplaceNetworkAclAssociation
					ec2:ReplaceNetworkAclEntry
					ec2:ReplaceRoute
					ec2:ReplaceTransitGatewayRoute
					ec2:RevokeSecurityGroupEgress
					ec2:RevokeSecurityGroupIngress
					ec2:SearchTransitGatewayRoutes

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNetworkMigrationDeployment</a>	Grants permission to start a network migration deployment	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		ec2:AcceptTransitGatewayVpcAttachment ec2:AssociateNatGatewayAddress ec2:AssociateRouteTable ec2:AssociateSubnetCidrBlock ec2:AssociateTransitGatewayRouteTable ec2:AssociateVpcCidrBlock ec2:AttachInternetGateway



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:AttachVolume ec2:AuthorizeSecurityGroupEgress ec2:AuthorizeSecurityGroupIngress ec2:CreateNatGateway ec2:CreateNetworkACL ec2:CreateNetworkACLEntry ec2:CreateNetworkInsightsPath ec2:CreateNetworkInterface

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:CreateRoute ec2:CreateRouteTable ec2:CreateSecurityGroup ec2:CreateSubnet ec2:CreateTags ec2:CreateTransitGatewayRoute ec2:CreateTransitGatewayRouteTable ec2:CreateTransitGatewayVpcAttachment

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteInternetGateway ec2:DeleteLaunchTemplate ec2:DeleteLaunchTemplateVersions ec2:DeleteNatGateway ec2:DeleteNetworkACL ec2:DeleteNetworkACLEntry ec2:DeleteNetworkInsightsAnalysis ec2:DeleteNetworkInsightsPath

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteNetworkInterface
					ec2:DeleteRoute
					ec2:DeleteRouteTable
					ec2:DeleteSecurityGroup
					ec2:DeleteSnapshot
					ec2:DeleteSubnet
					ec2:DeleteTransitGateway
					ec2:DeleteTransitGatewayRoute
					ec2:DeleteTransitGatewayRouteTable

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteTransitGatewayVpcAttachment ec2:DeleteVolume ec2:DeleteVpc ec2:DescribeAccountAttributes ec2:DescribeAddresses ec2:DescribeAvailabilityZones ec2:DescribeCustomerGateways ec2:DescribeEgressOnlyInter

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					netGateways ec2:DescribeHosts ec2:DescribeImages ec2:DescribeInstanceAttribute ec2:DescribeInstancesStatus ec2:DescribeInstanceTypes ec2:DescribeInstances ec2:DescribeInternetGateways ec2:DescribeLaunch

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					TemplateVersions ec2:DescribeLaunchTemplates ec2:DescribeManagedPrefixLists ec2:DescribeNatGateways ec2:DescribeNetworkAcls ec2:DescribeNetworkInsightsAnalyses ec2:DescribeNetworkInsightsPaths ec2:DescribeNetworkInterfaces

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribePrefixLists
					ec2:DescribeRegions
					ec2:DescribeRouteTables
					ec2:DescribeSecurityGroupRules
					ec2:DescribeSecurityGroups
					ec2:DescribeSnapshots
					ec2:DescribeSubnets
					ec2:DescribeTransitGatewayAttachments



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeTransitGatewayConnects
					ec2:DescribeTransitGatewayPeeringAttachments
					ec2:DescribeTransitGatewayRouteTables
					ec2:DescribeTransitGatewayVpcAttachments
					ec2:DescribeTransitGateways
					ec2:DescribeVolumes
					ec2:DescribeVpcEndpointServices

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iceConfigurations ec2:DescribeVpcEndpoints ec2:DescribeVpcPeeringConnections ec2:DescribeVpcs ec2:DescribeVpnConnections ec2:DescribeVpnGateways ec2:DetachInternetGateway ec2:DetachVolume ec2:DisableTransitGatewayRouteTableP

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ropagation ec2:DisassociateNatGatewayAddress ec2:DisassociateRouteTable ec2:DisassociateTransitGatewayRouteTable ec2:EnableTransitGatewayRouteTablePropagation ec2:GetEbsDefaultKmsKeyId ec2:GetEbsEncryptionByDefault

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:GetManagedPrefixListEntries ec2:GetTransitGatewayRouteTableAssociations ec2:GetTransitGatewayRouteTablePropagations ec2:ModifyInstanceAttribute ec2:ModifyLaunchTemplate ec2:ModifySubnetAttribute ec2:ModifyTransitGateway

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ModifyTransitGatewayVpcAttachment ec2:ModifyVolume ec2:ModifyVpcAttribute ec2:RejectTransitGatewayVpcAttachment ec2:ReleaseAddress ec2:ReplaceNetworkAclAssociation ec2:ReplaceNetworkAclEntry ec2:ReplaceRoute

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ReplaceTransitGatewayRoute ec2:RevokeSecurityGroupEgress ec2:RevokeSecurityGroupIngress ec2:SearchTransitGatewayRoutes ec2:StartNetworkInsightsAnalysis
<a href="#">StartNetworkMigrationMapping</a>	Grants permission to start a network migration mapping	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNetworkMigrationMappingUpdate</a>	Grants permission to start a network migration mapping update	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">StartReplication</a>	Grants permission to start replication	Write	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTest</a>	Grants permission to start test	Write	<a href="#">SourceServerResource*</a>		ec2:AttachVolume ec2:AuthorizeSecurityGroupEgress ec2:AuthorizeSecurityGroupIngress ec2:CreateLaunchTemplate ec2:CreateLaunchTemplateVersion ec2:CreateSecurityGroup ec2:CreateSnapshot ec2:CreateTags ec2:CreateVolume



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DeleteLaunchTemplateVersions ec2:DeleteSnapshot ec2:DeleteVolume ec2:DescribeAccountAttributes ec2:DescribeAvailabilityZones ec2:DescribeImages ec2:DescribeInstanceAttribute ec2:DescribeInstanceStatus

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeInstanceTypes ec2:DescribeInstances ec2:DescribeLaunchTemplateVersions ec2:DescribeLaunchTemplates ec2:DescribeSecurityGroups ec2:DescribeSnapshots ec2:DescribeSubnets ec2:DescribeVolumes

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DetachVolume ec2:ModifyInstanceAttribute ec2:ModifyLaunchTemplate ec2:ReportInstanceStatus ec2:RevokeSecurityGroupEgress ec2:RunInstances ec2:StartInstances ec2:StopInstances ec2:TerminateInstances iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					mgn:ListTagsForResource
<a href="#">StopReplication</a>	Grants permission to stop replication	Write	<a href="#">SourceServerResource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to assign a resource tag	Tagging	<a href="#">ApplicationResource</a> <a href="#">ConnectorResource</a> <a href="#">ExportResource</a> <a href="#">ImportResource</a> <a href="#">JobResource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">LaunchConfigurationTemplateResource</a>		
			<a href="#">ReplicationConfigurationTemplateResource</a>		
			<a href="#">SourceServerResource</a>		
			<a href="#">VcenterClientResource</a>		
			<a href="#">WaveResource</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">mgn:CreateAction</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TerminateTargetInstances</a>	Grants permission to terminate target instances	Write	<a href="#">SourceServerResource*</a>		ec2:DeleteVolume  ec2:DescribeInstances  ec2:DescribeVolumes  ec2:TerminateInstances
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UnarchiveApplication</a>	Grants permission to unarchive an application	Write	<a href="#">ApplicationResource*</a>		
<a href="#">UnarchiveWave</a>	Grants permission to unarchive a wave	Write	<a href="#">WaveResource*</a>		
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">ApplicationResource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ConnectorResource</a>		
			<a href="#">JobResource</a>		
			<a href="#">LaunchConfigurationTemplateResource</a>		
			<a href="#">ReplicationConfigurationTemplateResource</a>		
			<a href="#">SourceServerResource</a>		
			<a href="#">VcenterClientResource</a>		
			<a href="#">WaveResource</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountSettings</a>	Grants permission to update account settings	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAgentBacklogForMgn</a> [permission only]	Grants permission to update agent backlog	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateAgentConversionInfoForMgn</a> [permission only]	Grants permission to update agent conversion info	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateAgentReplicationInfoForMgn</a> [permission only]	Grants permission to update agent replication info	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateAgentReplicationProcessStateForMgn</a> [permission only]	Grants permission to update agent replication process state	Write	<a href="#">SourceServerResource*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAgentSourcePropertiesForMgn</a> [permission only]	Grants permission to update agent source properties	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write	<a href="#">ApplicationResource*</a>		
<a href="#">UpdateConnector</a>	Grants permission to update connector	Write	<a href="#">ConnectorResource*</a>		
<a href="#">UpdateLaunchConfiguration</a>	Grants permission to update launch configuration	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateLaunchConfigurationTemplate</a>	Grants permission to update launch configuration	Write	<a href="#">LaunchConfigurationTemplateResource*</a>		
<a href="#">UpdateNetworkMigrationDefinition</a>	Grants permission to update a network migration definition	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">UpdateNetworkMigrationMapperSegment</a>	Grants permission to update a network migration mapper segment	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNetworkMigrationMapperSegmentConstruct</a>	Grants permission to update a network migration mapper segment construct	Write	<a href="#">NetworkMigrationDefinitionResource*</a>		
<a href="#">UpdateReplicationConfiguration</a>	Grants permission to update replication configuration	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateReplicationConfigurationTemplate</a>	Grants permission to update replication configuration template	Write	<a href="#">ReplicationConfigurationTemplateResource*</a>		
<a href="#">UpdateSourceServer</a>	Grants permission to update source server	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateSourceServerReplicationType</a>	Grants permission to update source server replication type	Write	<a href="#">SourceServerResource*</a>		
<a href="#">UpdateWave</a>	Grants permission to update a wave	Write	<a href="#">WaveResource*</a>		
<a href="#">VerifyClientRoleForMgn</a> [permission only]	Grants permission to verify client role	Read			

## Resource types defined by AWS Application Migration Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">JobResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:job/\${JobID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ReplicationConfigurationTemplateResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:replication-configuration-template/\${ReplicationConfigurationTemplateID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">LaunchConfigurationTemplateResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:launch-configuration-template/\${LaunchConfigurationTemplateID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VcenterClientResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:vcenter-client/\${VcenterClientID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SourceServerResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:source-server/\${SourceServerID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ApplicationResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:application/\${ApplicationID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">WaveResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:wave/\${WaveID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ImportResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:import/\${ImportID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ExportResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:export/\${ExportID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ConnectorResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:connector/\${ConnectorID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">NetworkMigrationDefinitionResource</a>	arn:\${Partition}:mgn:\${Region}:\${Account}:network-migration-definition/\${NetworkMigrationDefinitionID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Application Migration Service

AWS Application Migration Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by presence of tag keys in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">mgn:CreateAction</a>	Filters access by the name of a resource-creating API action	String

## Actions, resources, and condition keys for Amazon Application Recovery Controller - Zonal Shift

Amazon Application Recovery Controller - Zonal Shift (service prefix: `arc-zonal-shift`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Application Recovery Controller - Zonal Shift](#)
- [Resource types defined by Amazon Application Recovery Controller - Zonal Shift](#)
- [Condition keys for Amazon Application Recovery Controller - Zonal Shift](#)

## Actions defined by Amazon Application Recovery Controller - Zonal Shift

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelPracticeRun</a>	Grants permission to cancel an active practice run	Write	<a href="#">ALB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">NLB*</a>	<a href="#">arc-zonal-shift:ResourceIdentifier</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CancelZonalShift</a>	Grants permission to cancel an active zonal shift	Write	<a href="#">ALB*</a> <a href="#">NLB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CreatePracticeRunConfiguration</a>	Grants permission to create a practice run configuration	Write	<a href="#">ALB*</a>  <a href="#">NLB*</a>		cloudwatch:DescribeAlarms  iam:CreateServiceLinkedRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeletePracticeRunConfiguration</a>	Grants permission to delete a practice run configuration	Write	<a href="#">ALB*</a>  <a href="#">NLB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">GetAutoshiftObserverNotificationStatus</a>	Grants permission to get autoshift observer notification status	Read			
<a href="#">GetManagedResource</a>	Grants permission to get information about a managed resource	Read	<a href="#">ALB*</a>  <a href="#">NLB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">ListAutoshifts</a>	Grants permission to list active and completed autoshifts	List			
<a href="#">ListManagedResources</a>	Grants permission to list managed resources	List			
<a href="#">ListZonalShifts</a>	Grants permission to list zonal shifts	List			
<a href="#">StartPracticeRun</a>	Grants permission to start a practice run	Write	<a href="#">ALB*</a>		
			<a href="#">NLB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">StartZonalShift</a>	Grants permission to start a zonal shift	Write	<a href="#">ALB*</a>  <a href="#">NLB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAutoshiftObserverNotificationStatus</a>	Grants permission to update autoshift observer notification status	Write			
<a href="#">UpdatePracticeRunConfiguration</a>	Grants permission to update a practice run configuration	Write	<a href="#">ALB*</a>  <a href="#">NLB*</a>		cloudwatch:DescribeAlarms  iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateZonalAutoshiftConfiguration</a>	Grants permission to update a zonal autoshift status	Write	<a href="#">ALB*</a>  <a href="#">NLB*</a>		iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateZonalShift</a>	Grants permission to update an existing zonal shift	Write	<a href="#">ALB*</a> <a href="#">NLB*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">arc-zonal-shift:ResourceIdentifier</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Application Recovery Controller - Zonal Shift

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">ALB</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/app/\${LoadBalancerName}/\${LoadBalancerId}	<a href="#">arc-zonal-shift:ResourceIdentifier</a>



Resource types	ARN	Condition keys
		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">NLB</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/net/\${LoadBalancerName}/\${LoadBalancerId}	<a href="#">arc-zonal-shift:ResourceIdentifier</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Application Recovery Controller - Zonal Shift

Amazon Application Recovery Controller - Zonal Shift defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">arc-zonal-shift:ResourceIdentifier</a>	Filters access by the resource identifier of the managed resource	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the managed resource	String
<a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the managed resource	String

## Actions, resources, and condition keys for AWS Application Transformation Service

AWS Application Transformation Service (service prefix: `application-transformation`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Application Transformation Service](#)
- [Resource types defined by AWS Application Transformation Service](#)
- [Condition keys for AWS Application Transformation Service](#)

## Actions defined by AWS Application Transformation Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetContainerization</a>	Grants permission to get the details of all Containerization jobs	Read			
<a href="#">GetDeployment</a>	Grants permission to get the details of all Deployment jobs	Read			
<a href="#">GetGroupingAssessment</a>	Grants permission to Get the details of a Grouping Assessment Operation	Read			
<a href="#">GetPortingCompatibilityAssessment</a>	Grants permission to Get Porting Compatibility Operation	Read			
<a href="#">GetPortingRecommendationAssessment</a>	Grants permission to Get the details of a Porting Recommendation Assessment Operation	Read			
<a href="#">GetRuntimeAssessment</a>	Grants permission to Get the details of a Runtime Assessment Operation	Read			
<a href="#">PutLogData</a>	Grants permission to Push Logs (Intended for Clients Only)	Write			
<a href="#">PutMetricData</a>	Grants permission to Push Metrics Data (Intended for Clients Only)	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartContainerization</a>	Grants permission to start a Containerization job	Write			
<a href="#">StartDeployment</a>	Grants permission to start a Deployment job	Write			
<a href="#">StartGroupingAssessment</a>	Grants permission to Start a Grouping Assessment Operation	Write			
<a href="#">StartPortingCompatibilityAssessment</a>	Grants permission to Start Porting Compatibility Operation	Write			
<a href="#">StartPortingRecommendationAssessment</a>	Grants permission to Start the Porting Recommendation Assessment Operation	Write			
<a href="#">StartRuntimeAssessment</a>	Grants permission to Start a Runtime Assessment Operation	Write			

## Resource types defined by AWS Application Transformation Service

AWS Application Transformation Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Application Transformation Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Application Transformation Service

Application Transformation Service has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon AppStream 2.0

Amazon AppStream 2.0 (service prefix: `appstream`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon AppStream 2.0](#)
- [Resource types defined by Amazon AppStream 2.0](#)
- [Condition keys for Amazon AppStream 2.0](#)

## Actions defined by Amazon AppStream 2.0

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateAppBlockBuilderAppBlock</a>	Grants permission to associate the specified app block builder with the app block	Write	<a href="#">app-block*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">app-block-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Associate ApplicationFleet</a>	Grants permission to associate the specified application with the fleet	Write	<a href="#">application*</a>		
			<a href="#">fleet*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Associate ApplicationToEntitlement</a>	Grants permission to associate the specified application to the specified entitlement	Write	<a href="#">stack*</a>		
<a href="#">Associate Fleet</a>	Grants permission to associate the specified fleet with the specified stack	Write	<a href="#">fleet*</a>		
			<a href="#">stack*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateSoftwareToolImageBuilder</a>	Grants permission to associate license included application(s) with an existing image builder instance	Write	<a href="#">image-builder*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">BatchAssociateUserStack</a>	Grants permission to associate the specified users with the specified stacks. Users in a user pool cannot be assigned to stacks with fleets that are joined to an Active Directory domain	Write	<a href="#">stack*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">BatchDisassociateUserStack</a>	Grants permission to disassociate the specified users from the specified stacks	Write	<a href="#">stack*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CopyImage</a>	Grants permission to copy the specified image within the same Region or to a new Region within the same AWS account	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAppBlock</a>	Grants permission to create an app block. App blocks store details about the virtual hard disk that contains the files for the application in an S3 bucket. It also stores the setup script with details about how to mount the virtual hard disk. App blocks are only supported for Elastic fleets	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateAppBlockBuilder</a>	Grants permission to create an app block builder. An app block builder is a virtual machine that is used to create an app block	Write	<a href="#">app-block-builder*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateAppBlockBuilderStreamingURL</a>	Grants permission to create a URL to start an app block builder streaming session	Write	<a href="#">app-block-builder*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create an application within customer account. Applications store the details about how to launch applications on streaming instances. This is only supported for Elastic fleets	Write	<a href="#">app-block*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateDirectoryConfig</a>	Grants permission to create a Directory Config object in AppStream 2.0. This object includes the configuration information required to join fleets and image builders to Microsoft Active Directory domains	Write			
<a href="#">CreateEntitlement</a>	Grants permission to create an entitlement to control access to applications based on user attributes	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateExportImageTask</a>	Grants permission to create an export task for an AppStream 2.0 image	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateFleet</a>	Grants permission to create a fleet. A fleet is a group of streaming instances from which applications are launched and streamed to users	Write	<a href="#">fleet*</a> <a href="#">image</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateImageBuilder</a>	Grants permission to create an image builder. An image builder is a virtual machine that is used to create an image	Write	<a href="#">image*</a> <a href="#">image-builder*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateImageBuilderStreamingURL</a>	Grants permission to create a URL to start an image builder streaming session	Write	<a href="#">image-builder*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateImportedImage</a>	Grants permission to create an AppStream 2.0 image from an imported AMI	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateStack</a>	Grants permission to create a stack to start streaming applications to users. A stack consists of an associated fleet, user access policies, and storage configurations	Write	<a href="#">stack*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStreamingURL</a>	Grants permission to create a temporary URL to start an AppStream 2.0 streaming session for the specified user. A streaming URL enables application streaming to be tested without user setup	Write	<a href="#">fleet*</a> <a href="#">stack*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateThemeForStack</a>	Grants permission to create a custom branding theme, which might includes a custom logo, website links, and other branding to display to your users	Write	<a href="#">stack*</a>		
<a href="#">CreateUpdatedImage</a>	Grants permission to update an existing image within customer account	Write	<a href="#">image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateUsageReportSubscription</a>	Grants permission to create a usage report subscription. Usage reports are generated daily	Write			
<a href="#">CreateUser</a>	Grants permission to create a new user in the user pool	Write			
<a href="#">DeleteAppBlock</a>	Grants permission to delete the specified app block	Write	<a href="#">app-block*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAppBlockBuilder</a>	Grants permission to delete the specified app block builder and release capacity	Write	<a href="#">app-block-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete the specified application	Write	<a href="#">application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDirectoryConfig</a>	Grants permission to delete the specified Directory Config object from AppStream 2.0. This object includes the configuration information required to join fleets and image builders to Microsoft Active Directory domains	Write			
<a href="#">DeleteEntitlement</a>	Grants permission to delete the specified entitlement	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFleet</a>	Grants permission to delete the specified fleet	Write	<a href="#">fleet*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteImage</a>	Grants permission to delete the specified image. An image cannot be deleted when it is in use	Write	<a href="#">image*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteImageBuilder</a>	Grants permission to delete the specified image builder and release capacity	Write	<a href="#">image-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteImagePermissions</a>	Grants permission to delete permissions for the specified private image	Write	<a href="#">image*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteStack</a>	Grants permission to delete the specified stack. After the stack is deleted, the application streaming environment provided by the stack is no longer available to users. Also, any reservations made for application streaming sessions for the stack are released	Write	<a href="#">stack*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteThemeForStack</a>	Grants permission to delete a custom branding theme, which might include a custom logo, website links, and other branding to display to your users	Write	<a href="#">stack*</a>		
<a href="#">DeleteUsageReportSubscription</a>	Grants permission to disable usage report generation	Write			
<a href="#">DeleteUser</a>	Grants permission to delete a user from the user pool	Write			
<a href="#">DescribeAppBlockBuilderAppBlockAssociations</a>	Grants permission to retrieve the associations that are associated with the specified app block builder or app block	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAppBlockBuilders</a>	Grants permission to retrieve a list that describes one or more specified app block builders, if the app block builder names are provided. Otherwise, all app block builders in the account are described	List			
<a href="#">DescribeAppBlocks</a>	Grants permission to retrieve a list that describes one or more specified app blocks, if the app block arns are provided. Otherwise, all app blocks in the account are described	List			
<a href="#">DescribeAppLicenseUsage</a>	Grants permission to retrieve license included application usage information	List			
<a href="#">DescribeApplicationFleetAssociations</a>	Grants permission to retrieve the associations that are associated with the specified application or fleet	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeApplications</a>	Grants permission to retrieve a list that describes one or more specified applications, if the application arns are provided. Otherwise, all applications in the account are described	List			
<a href="#">DescribeDirectoryConfigs</a>	Grants permission to retrieve a list that describes one or more specified Directory Config objects for AppStream 2.0, if the names for these objects are provided. Otherwise, all Directory Config objects in the account are described. This object includes the configuration information required to join fleets and image builders to Microsoft Active Directory domains	List			
<a href="#">DescribeEntitlements</a>	Grants permission to retrieve one or all entitlements for the specified stack	List	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFleets</a>	Grants permission to retrieve a list that describes one or more specified fleets, if the fleet names are provided. Otherwise, all fleets in the account are described	List			
<a href="#">DescribeImageBuilders</a>	Grants permission to retrieve a list that describes one or more specified image builders, if the image builder names are provided. Otherwise, all image builders in the account are described	List			
<a href="#">DescribeImagePermissions</a>	Grants permission to retrieve a list that describes the permissions for shared AWS account IDs on a private image that you own	Read	<a href="#">image*</a>		
<a href="#">DescribeImages</a>	Grants permission to retrieve a list that describes one or more specified images, if the image names or image ARNs are provided. Otherwise, all images in the account are described	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSessions</a>	Grants permission to retrieve a list that describes the streaming sessions for the specified stack and fleet. If a user ID is provided for the stack and fleet, only the streaming sessions for that user are described	List	<a href="#">fleet*</a> <a href="#">stack*</a>		
<a href="#">DescribeSoftwareAssociations</a>	Grants permission to retrieve license included application associations for a specified resource	List	<a href="#">image</a> <a href="#">image-builder</a>		
<a href="#">DescribeStacks</a>	Grants permission to retrieve a list that describes one or more specified stacks, if the stack names are provided. Otherwise, all stacks in the account are described	List			
<a href="#">DescribeThemeForStack</a>	Grants permission to get the custom branding theme information, which might include a custom logo, website links, and other branding to display to your users	Read	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeUsageReportSubscriptions</a>	Grants permission to retrieve a list that describes one or more usage report subscriptions	List			
<a href="#">DescribeUserStackAssociations</a>	Grants permission to retrieve a list that describes the UserStackAssociation objects	List			
<a href="#">DescribeUsers</a>	Grants permission to retrieve a list that describes users in the user pool	List			
<a href="#">DisableUser</a>	Grants permission to disable the specified user in the user pool. This action does not delete the user	Write			
<a href="#">DisassociateAppBlockBuilderAppBlock</a>	Grants permission to disassociate the specified app block builder with the app block	Write	<a href="#">app-block*</a>		
			<a href="#">app-block-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateApplicationFleet</a>	Grants permission to disassociate the specified application from the specified fleet	Write	<a href="#">application*</a> <a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateApplicationFromEntitlement</a>	Grants permission to disassociate the specified application from the specified entitlement	Write	<a href="#">stack*</a>		
<a href="#">DisassociateFleet</a>	Grants permission to disassociate the specified fleet from the specified stack	Write	<a href="#">fleet*</a>		
			<a href="#">stack*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateSoftwareFromImageBuilder</a>	Grants permission to remove license included application(s) association(s) from an image builder instance	Write	<a href="#">image-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">EnableUser</a>	Grants permission to enable a user in the user pool	Write			
<a href="#">ExpireSession</a>	Grants permission to immediately stop the specified streaming session	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExportImageTask</a>	Grants permission to retrieve details of a specific export image task	Read			
<a href="#">ListAssociatedFleets</a>	Grants permission to retrieve the name of the fleet that is associated with the specified stack	Read	<a href="#">stack*</a>		
<a href="#">ListAssociatedStacks</a>	Grants permission to retrieve the name of the stack with which the specified fleet is associated	Read	<a href="#">fleet*</a>		
<a href="#">ListEntitledApplications</a>	Grants permission to retrieve the applications that are associated with the specified entitlement	List	<a href="#">stack*</a>		
<a href="#">ListExportImageTasks</a>	Grants permission to list export image tasks	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of all tags for the specified AppStream 2.0 resource. The following resources can be tagged: Image builders, images, fleets, and stacks	Read			
<a href="#">StartAppBlockBuilder</a>	Grants permission to start the specified app block builder	Write	<a href="#">app-block-builder*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartFleet</a>	Grants permission to start the specified fleet	Write	<a href="#">fleet*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartImageBuilder</a>	Grants permission to start the specified image builder	Write	<a href="#">image-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartSoftwareDeploymentToImageBuilder</a>	Grants permission to initiate license included applications deployment to an image builder instance	Write	<a href="#">image-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopAppBlockBuilder</a>	Grants permission to stop the specified app block builder	Write	<a href="#">app-block-builder*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopFleet</a>	Grants permission to stop the specified fleet	Write	<a href="#">fleet*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopImageBuilder</a>	Grants permission to stop the specified image builder	Write	<a href="#">image-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Stream</a>	Grants permission to federated users to sign in by using their existing credentials and stream applications from the specified stack	Write	<a href="#">stack*</a>		
				<a href="#">appstream:userId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add or overwrite one or more tags for the specified AppStream 2.0 resource. The following resources can be tagged: Image builders, images, fleets, stacks, app blocks and applications	Tagging	<a href="#">app-block</a>  <a href="#">app-block-builder</a>  <a href="#">application</a>  <a href="#">fleet</a>  <a href="#">image</a>  <a href="#">image-builder</a>  <a href="#">stack</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to disassociate one or more tags from the specified AppStream 2.0 resource	Tagging	<a href="#">app-block</a>		
			<a href="#">app-block-builder</a>		
			<a href="#">application</a>		
			<a href="#">fleet</a>		
			<a href="#">image</a>		
			<a href="#">image-builder</a>		
			<a href="#">stack</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAppBlockBuilder</a>	Grants permission to update a specific app block builder. An app block builder is a virtual machine that is used to create an app block	Write	<a href="#">app-block-builder*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateApplication</a>	Grants permission to update the specified fields for the specified application	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">app-block</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDirectoryConfig</a>	Grants permission to update the specified Directory Config object in AppStream 2.0. This object includes the configuration information required to join fleets and image builders to Microsoft Active Directory domains	Write			
<a href="#">UpdateEntitlement</a>	Grants permission to update the specified fields for the specified entitlement	Write	<a href="#">stack*</a>		
<a href="#">UpdateFleet</a>	Grants permission to update the specified fleet. All attributes except the fleet name can be updated when the fleet is in the STOPPED state	Write	<a href="#">fleet*</a> <a href="#">image</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateImagePermissions</a>	Grants permission to add or update permissions for the specified private image	Write	<a href="#">image*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateStack</a>	Grants permission to update the specified fields for the specified stack	Write	<a href="#">stack*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateThemeForStack</a>	Grants permission to update the custom branding theme information, which might include a custom logo, website links, and other branding to display to your users	Write	<a href="#">stack*</a>		

## Resource types defined by Amazon AppStream 2.0

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">fleet</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:fleet/\${FleetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">image</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:image/\${ImageName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">image-builder</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:image-builder/\${ImageBuilderName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stack</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:stack/\${StackName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">app-block</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:app-block/\${AppBlockName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:application/\${ApplicationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">app-block-builder</a>	arn:\${Partition}:appstream:\${Region}:\${Account}:app-block-builder/\${AppBlockBuilderName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon AppStream 2.0

Amazon AppStream 2.0 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">appstream:userId</a>	Filters access by the ID of the AppStream 2.0 user	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS AppSync

AWS AppSync (service prefix: appsync) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS AppSync](#)
- [Resource types defined by AWS AppSync](#)
- [Condition keys for AWS AppSync](#)

## Actions defined by AWS AppSync

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.



However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateApi</a>	Grants permission to attach a GraphQL API to a custom domain name in AppSync	Write	<a href="#">domain*</a>		
<a href="#">AssociateMergedGraphQLApi</a>	Grants permission to associate a merged API to a source API	Write	<a href="#">graphqlapi*</a>		
<a href="#">AssociateSourceGraphQLApi</a>	Grants permission to associate a source API to a merged API	Write	<a href="#">graphqlapi*</a>		
<a href="#">AssociateWebACL</a> [permission only]	Grants permission to associate a web ACL and a resource	Write	<a href="#">api</a> <a href="#">graphqlapi</a>		
<a href="#">CreateApi</a>	Grants permission to create an API	Write		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole
<a href="#">CreateApiCache</a>	Grants permission to create an API cache in AppSync	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApiKey</a>	Grants permission to create a unique key that you can distribute to clients who are executing your API	Write			
<a href="#">CreateChannelNamespace</a>	Grants permission to create a channel namespace	Write	<a href="#">channelNamespace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataSource</a>	Grants permission to create a data source	Write			
<a href="#">CreateDomainName</a>	Grants permission to create a custom domain name in AppSync	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateFunction</a>	Grants permission to create a new function	Write			
<a href="#">CreateGraphQLApi</a>	Grants permission to create a GraphQL API, which is the top level AppSync resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">appsync:Visibility</a>	iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateResolver</a>	Grants permission to create a resolver. A resolver converts incoming requests into a format that a data source can understand, and converts the data source's responses into GraphQL	Write			
<a href="#">CreateType</a>	Grants permission to create a type	Write			
<a href="#">DeleteApi</a>	Grants permission to delete a API. This will also clean up every AppSync resource below that API	Write	<a href="#">api*</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>	
<a href="#">DeleteApiCache</a>	Grants permission to delete an API cache in AppSync	Write			
<a href="#">DeleteApiKey</a>	Grants permission to delete an API key	Write			
<a href="#">DeleteChannelNamespace</a>	Grants permission to delete a channel namespace	Write	<a href="#">channelNamespace*</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>	
<a href="#">DeleteDataSource</a>	Grants permission to delete a data source	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDomainName</a>	Grants permission to delete a custom domain name in AppSync	Write	<a href="#">domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteFunction</a>	Grants permission to delete a function	Write			
<a href="#">DeleteGraphQLApi</a>	Grants permission to delete a GraphQL Api. This will also clean up every AppSync resource below that API	Write	<a href="#">graphqlapi*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResolver</a>	Grants permission to delete a resolver	Write			
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to remove a resource policy	Write			
<a href="#">DeleteType</a>	Grants permission to delete a type	Write			
<a href="#">DisassociateApi</a>	Grants permission to detach a GraphQL API to a custom domain name in AppSync	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateMergedGraphQLApi</a>	Grants permission to remove an associated source API from a merged API identified by the source API	Write	<a href="#">mergedApiAssociation*</a>		
<a href="#">DisassociateSourceGraphQLApi</a>	Grants permission to remove an associated source API from a merged API identified by the merged API	Write	<a href="#">sourceApiAssociation*</a>		
<a href="#">DisassociateWebACL</a> [permission only]	Grants permission to disassociate a web ACL and a resource	Write	<a href="#">api</a> <a href="#">graphqlapi</a>		
<a href="#">EvaluateCode</a>	Grants permission to evaluate code with a runtime and context	Read			
<a href="#">EvaluateMappingTemplate</a>	Grants permission to evaluate template mapping	Read			
<a href="#">EventConnect</a>	Grants permission to connect to an Event API	Write	<a href="#">api*</a>		
<a href="#">EventPublish</a>	Grants permission to publish events to a channel namespace	Write	<a href="#">channelNamespace*</a>		
<a href="#">EventSubscribe</a>	Grants permission to subscribe to a channel namespace	Write	<a href="#">channelNamespace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">FlushApiCache</a>	Grants permission to flush an API cache in AppSync	Write			
<a href="#">GetApi</a>	Grants permission to retrieve an API	Read	<a href="#">api*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetApiAssociation</a>	Grants permission to read custom domain name - GraphQL API association details in AppSync	Read	<a href="#">domain*</a>		
<a href="#">GetApiCache</a>	Grants permission to read information about an API cache in AppSync	Read			
<a href="#">GetChannelNamespace</a>	Grants permission to retrieve a channel namespace	Read	<a href="#">channelNamespace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDataSource</a>	Grants permission to retrieve a data source	Read			
<a href="#">GetDataSourceIntrospection</a>	Grants permission to retrieve a data source introspection	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDomainName</a>	Grants permission to read information about a custom domain name in AppSync	Read	<a href="#">domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetFunction</a>	Grants permission to retrieve a function	Read			
<a href="#">GetGraphQLApi</a>	Grants permission to retrieve a GraphQL API	Read	<a href="#">graphqlapi*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetGraphQLApiEnvironmentVariables</a>	Grants permission to retrieve the environment variables for a GraphQL API	Read			
<a href="#">GetIntrospectionSchema</a>	Grants permission to retrieve the introspection schema for a GraphQL API	Read			
<a href="#">GetResolver</a>	Grants permission to retrieve a resolver	Read			
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to read a resource policy	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSchemaCreationStatus</a>	Grants permission to retrieve the current status of a schema creation operation	Read			
<a href="#">GetSourceApiAssociation</a>	Grants permission to read information about a merged API associated source API	Read	<a href="#">sourceApiAssociation*</a>		
<a href="#">GetType</a>	Grants permission to retrieve a type	Read			
<a href="#">GetWebACLForResource</a> [permission only]	Grants permission to get associated web ACLs for a resource	Read	<a href="#">api</a> <a href="#">graphqlapi</a>		
<a href="#">GraphQL</a> [permission only]	Grants permission to send a GraphQL query to a GraphQL API	Write	<a href="#">field*</a> <a href="#">graphqlapi*</a>		
<a href="#">ListApiKeys</a>	Grants permission to list the API keys for a given API	List			
<a href="#">ListApis</a>	Grants permission to list APIs	List		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListChannelNamespaces</a>	Grants permission to list channel namespace	List	<a href="#">api*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListDataSources</a>	Grants permission to list the data sources for a given API	List			
<a href="#">ListDomainNames</a>	Grants permission to enumerate custom domain names in AppSync	List		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListFunctions</a>	Grants permission to list the functions for a given API	List			
<a href="#">ListGraphQLApis</a>	Grants permission to list GraphQL APIs	List			
<a href="#">ListResolvers</a>	Grants permission to list the resolvers for a given API and type	List			
<a href="#">ListResolversByFunction</a>	Grants permission to list the resolvers that are associated with a specific function	List			
<a href="#">ListResourcesForWebACL</a> [permission only]	Grants permission to get associated resources for a web ACL	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSourceApiAssociations</a>	Grants permission to list source APIs associated to a given merged API	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">api</a>		
			<a href="#">channelNameSpace</a>		
			<a href="#">domain</a>		
			<a href="#">graphqlapi</a>		
			<a href="#">aws:ResourceTag/\${TagKey}</a>		
<a href="#">ListTypes</a>	Grants permission to list the types for a given API	List			
<a href="#">ListTypesByAssociation</a>	Grants permission to list the types for a given merged API and source API association	List			
<a href="#">PutGraphQLApiEnvironmentVariables</a>	Grants permission to update the environment variables for a GraphQL API	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to set a resource policy	Write			
<a href="#">SetWebACL</a>	Grants permission to set a web ACL	Permissions management			
<a href="#">SourceGraphQL</a> [permission only]	Grants permission to send a GraphQL query to a source API of a merged API	Write	<a href="#">field*</a>		
			<a href="#">graphqlapi*</a>		
<a href="#">StartDataSourceIntrospection</a>	Grants permission to introspect a data source	Write			
<a href="#">StartSchemaCreation</a>	Grants permission to add a new schema to your GraphQL API. This operation is asynchronous - GetSchemaCreationStatus can show when it has completed	Write			
<a href="#">StartSchemaMerge</a>	Grants permission to initiate a schema merge for a given merged API and associated source API	Write	<a href="#">sourceApiAssociation*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">api</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">channelNameSpace</a>		
			<a href="#">domain</a>		
			<a href="#">graphqlapi</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">api</a>		
			<a href="#">channelNameSpace</a>		
			<a href="#">domain</a>		
			<a href="#">graphqlapi</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateApi</a>	Grants permission to update an API	Write	<a href="#">api*</a>		iam:CreateServiceLinkedRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateApiCache</a>	Grants permission to update an API cache in AppSync	Write			
<a href="#">UpdateApiKey</a>	Grants permission to update an API key for a given API	Write			
<a href="#">UpdateChannelNamespace</a>	Grants permission to update a channel namespace	Write	<a href="#">channelNamespace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDataSource</a>	Grants permission to update a data source	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDomainName</a>	Grants permission to update a custom domain name in AppSync	Write	<a href="#">domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateFunction</a>	Grants permission to update an existing function	Write			
<a href="#">UpdateGraphQLApi</a>	Grants permission to update a GraphQL API	Write	<a href="#">graphqlapi*</a>		iam:CreateServiceLinkedRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateResolver</a>	Grants permission to update a resolver	Write			
<a href="#">UpdateSourceApiAssociation</a>	Grants permission to update a merged API source API association	Write	<a href="#">sourceApiAssociation*</a>		
<a href="#">UpdateType</a>	Grants permission to update a type	Write			

## Resource types defined by AWS AppSync

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types



that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">datasource</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${GraphQLAPIId}/datasources/\${DatasourceName}	
<a href="#">domain</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:domainnames/\${DomainName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">graphqlapi</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${GraphQLAPIId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">field</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${GraphQLAPIId}/types/\${TypeName}/fields/\${FieldName}	
<a href="#">type</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${GraphQLAPIId}/types/\${TypeName}	
<a href="#">function</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${GraphQLAPIId}/functions/\${FunctionId}	
<a href="#">sourceApi Association</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${MergedGraphQLAPIId}/sourceApiAssociations/\${AssociationId}	
<a href="#">mergedApi Association</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${SourceGraphQLAPIId}/mergedApiAssociations/\${AssociationId}	

Resource types	ARN	Condition keys
<a href="#">api</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${ApiId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">channelNamespace</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${ApiId}/channelNamespaces/\${ChannelNamespaceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS AppSync

AWS AppSync defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">appsync:Visibility</a>	Filters access by the visibility of an API	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon ARC Region switch

Amazon ARC Region switch (service prefix: arc-region-switch) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon ARC Region switch](#)
- [Resource types defined by Amazon ARC Region switch](#)
- [Condition keys for Amazon ARC Region switch](#)

## Actions defined by Amazon ARC Region switch

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApprovePlanExecutionStep</a>	Grants permission to approve a plan execution step	Write	<a href="#">plan*</a>		
<a href="#">CancelPlanExecution</a>	Grants permission to cancel a plan execution	Write	<a href="#">plan*</a>		
<a href="#">CreatePlan</a>	Grants permission to create a plan	Write	<a href="#">plan*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">DeletePlan</a>	Grants permission to delete a plan	Write	<a href="#">plan*</a>		
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete the RAM access control policy for a plan	Permissions management			
<a href="#">GetPlan</a>	Grants permission to get information about plans in all AWS Regions using a control plane	Read	<a href="#">plan*</a>		
<a href="#">GetPlanEvaluationStatus</a>	Grants permission to get a plan's evaluation status	Read	<a href="#">plan*</a>		
<a href="#">GetPlanExecution</a>	Grants permission to get plan execution details and setup information	Read	<a href="#">plan*</a>		
<a href="#">GetPlanInRegion</a>	Grants permission to get information about a plan in a specific AWS Region using the Region switch Regional data plane	Read	<a href="#">plan*</a>		
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to get the resource policy of a plan	Permissions management	<a href="#">plan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPlanExecutionEvents</a>	Grants permission to list plan execution events	List	<a href="#">plan*</a>		
<a href="#">ListPlanExecutions</a>	Grants permission to list plan executions	List	<a href="#">plan*</a>		
<a href="#">ListPlans</a>	Grants permission to list plans in all AWS Regions using a control plane	List			
<a href="#">ListPlansInRegion</a>	Grants permission to list plans in a specific AWS Region using the Region switch Regional data plane	List			
<a href="#">ListRoute53HealthChecks</a>	Grants permission to list Route 53 health checks	List	<a href="#">plan*</a>		
<a href="#">ListRoute53HealthChecksInRegion</a>	Grants permission to list Route 53 health checks in a specific AWS Region using the Region switch Regional data plane	List	<a href="#">plan*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">plan*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to define the RAM access control policy for a plan	Permissions management			
<a href="#">StartPlanExecution</a>	Grants permission to start a plan execution	Write	<a href="#">plan*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">plan*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">plan*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePlan</a>	Grants permission to update a plan	Write	<a href="#">plan*</a>		
<a href="#">UpdatePlanExecution</a>	Grants permission to update a plan execution	Write	<a href="#">plan*</a>		
<a href="#">UpdatePlanExecutionStep</a>	Grants permission to update a plan execution step	Write	<a href="#">plan*</a>		

## Resource types defined by Amazon ARC Region switch

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">plan</a>	arn:\${Partition}:arc-region-switch:::\${Account}:plan/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon ARC Region switch

Amazon ARC Region switch defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Artifact

AWS Artifact (service prefix: `artifact`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Artifact](#)
- [Resource types defined by AWS Artifact](#)
- [Condition keys for AWS Artifact](#)

## Actions defined by AWS Artifact

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAgreement</a>	Grants permission to accept an AWS agreement that has not yet been accepted by the customer account	Write	<a href="#">agreement</a> *		
<a href="#">AcceptNdaForAgreement</a>	Grants permission to accept the terms of an NDA Document for a given agreement resource	Write	<a href="#">agreement</a> *		
<a href="#">GetAccountSettings</a>	Grants permission to get the account settings for Artifact	Read			
<a href="#">GetAgreement</a>	Grants permission to get an AWS agreement that has not yet been accepted by the customer account	Read	<a href="#">agreement</a> *		
<a href="#">GetCustomerAgreement</a>	Grants permission to get an AWS agreement that has been accepted by the customer account	Read	<a href="#">customer-agreement</a> *		
<a href="#">GetNdaForAgreement</a>	Grants permission to retrieve the NDA Document for a given agreement resource	Read	<a href="#">agreement</a> *		
<a href="#">GetReport</a>	Grants permission to download a report	Read	<a href="#">report</a> *		
<a href="#">GetReportMetadata</a>	Grants permission to download metadata associated with a report	Read	<a href="#">report</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTermFo rReport</a>	Grants permission to download a term associated with a report	Read	<a href="#">report*</a>		
<a href="#">ListAgree ments</a>	Grants permission to list AWS agreements	List			
<a href="#">ListCusto merAgreem ents</a>	Grants permission to list customer-agreement resources that have been accepted by the customer account	List			
<a href="#">ListRepor tVersions</a>	Grants permission to list report versions in your account	List			
<a href="#">ListReports</a>	Grants permission to list reports in your account	List			
<a href="#">PutAccoun tSettings</a>	Grants permission to put account settings for Artifact	Write			
<a href="#">Terminate Agreement</a>	Grants permission to terminate a customer agreement that was previously accepted by the customer account	Write	<a href="#">customer- agreement</a> * -		

## Resource types defined by AWS Artifact

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">customer-agreement</a>	arn:\${Partition}:artifact::\${Account}:customer-agreement/*	
<a href="#">agreement</a>	arn:\${Partition}:artifact::agreement/*	
<a href="#">report</a>	arn:\${Partition}:artifact:\${Region}:report/\${ReportId}:\${Version}	<a href="#">artifact:ReportCategory</a> <a href="#">artifact:ReportSeries</a>

## Condition keys for AWS Artifact

AWS Artifact defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">artifact:ReportCategory</a>	Filters access by which category reports are associated with	String
<a href="#">artifact:ReportSeries</a>	Filters access by which series reports are associated with	String

## Actions, resources, and condition keys for Amazon Athena

Amazon Athena (service prefix: athena) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Athena](#)
- [Resource types defined by Amazon Athena](#)
- [Condition keys for Amazon Athena](#)

## Actions defined by Amazon Athena

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetNamedQuery</a>	Grants permission to get information about one or more named queries	Read	<a href="#">workgroup</a> * -		
<a href="#">BatchGetPreparedStatement</a>	Grants permission to get information about one or more prepared statements	Read	<a href="#">workgroup</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetQueryExecution</a>	Grants permission to get information about one or more query executions	Read	<a href="#">workgroup*</a>		
<a href="#">CancelCapacityReservation</a>	Grants permission to cancel a capacity reservation	Write	<a href="#">capacity-reservation*</a>		
<a href="#">CancelQueryExecution</a>	Grants permission to cancel query execution. Deprecated. Applies only to AWS services and principals that use Athena JDBC driver earlier than 1.1.0. Use StopQuery Execution otherwise	Write	<a href="#">workgroup*</a>		
<a href="#">CreateCapacityReservation</a>	Grants permission to create a capacity reservation	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataCatalog</a>	Grants permission to create a datacatalog	Write	<a href="#">datacatalog*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateNamedQuery</a>	Grants permission to create a named query	Write	<a href="#">workgroup*</a>		
<a href="#">CreateNotebook</a>	Grants permission to create a notebook	Write	<a href="#">workgroup*</a>		
<a href="#">CreatePreparedStatement</a>	Grants permission to create a prepared statement	Write	<a href="#">workgroup*</a>		
<a href="#">CreatePresignedNotebookUrl</a>	Grants permission to create a presigned notebook url	Write	<a href="#">workgroup*</a>		
<a href="#">CreateWorkGroup</a>	Grants permission to create a workgroup	Write	<a href="#">workgroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCapacityReservation</a>	Grants permission to delete a capacity reservation	Write	<a href="#">capacity-reservation*</a>		
<a href="#">DeleteDataCatalog</a>	Grants permission to delete a datacatalog	Write	<a href="#">datacatalog*</a>		
<a href="#">DeleteNamedQuery</a>	Grants permission to delete a named query specified	Write	<a href="#">workgroup*</a>		
<a href="#">DeleteNotebook</a>	Grants permission to delete a notebook	Write	<a href="#">workgroup*</a>		
<a href="#">DeletePreparedStatement</a>	Grants permission to delete a prepared statement specified	Write	<a href="#">workgroup*</a>		
<a href="#">DeleteWorkGroup</a>	Grants permission to delete a workgroup	Write	<a href="#">workgroup*</a>		
<a href="#">ExportNotebook</a>	Grants permission to export a notebook	Write	<a href="#">workgroup*</a>		
<a href="#">GetCalculationExecution</a>	Grants permission to get a calculation execution	Read	<a href="#">workgroup*</a>		
<a href="#">GetCalculationExecutionCode</a>	Grants permission to get a calculation execution code	Read	<a href="#">workgroup*</a>		
<a href="#">GetCalculationExecutionStatus</a>	Grants permission to get a calculation execution status	Read	<a href="#">workgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCapacityAssignmentConfiguration</a>	Grants permission to get capacity assignment information for a capacity reservation	Read	<a href="#">capacity-reservation*</a>		
<a href="#">GetCapacityReservation</a>	Grants permission to get a capacity reservation	Read	<a href="#">capacity-reservation*</a>		
<a href="#">GetCatalogs</a>	Grants permission to enable access to databases and tables. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			
<a href="#">GetDataCatalog</a>	Grants permission to get a datacatalog	Read	<a href="#">datacatalog*</a>		
<a href="#">GetDatabase</a>	Grants permission to get a database for a given datacatalog	Read	<a href="#">datacatalog*</a>		
<a href="#">GetExecutionEngine</a>	Grants permission to enable access to the specified database and table. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExecutionEngines</a>	Grants permission to enable access to databases and tables. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			
<a href="#">GetNamedQuery</a>	Grants permission to get information about the specified named query	Read	<a href="#">workgroup</a> *		
<a href="#">GetNameSpace</a>	Grants permission to enable access to the specified database and table. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			
<a href="#">GetNameSpaces</a>	Grants permission to enable access to databases and tables. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			
<a href="#">GetNotebookMetadata</a>	Grants permission to get notebook metadata	Read	<a href="#">workgroup</a> *		
<a href="#">GetPreparedStatement</a>	Grants permission to get information about the specified prepared statement	Read	<a href="#">workgroup</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetQueryExecution</a>	Grants permission to get information about the specified query execution	Read	<a href="#">workgroup</a> *		
<a href="#">GetQueryExecutions</a>	Grants permission to get query executions. Deprecated. Applies only to AWS services and principals that use Athena JDBC driver earlier than 1.1.0. Use ListQueryExecutions otherwise	Read			
<a href="#">GetQueryResults</a>	Grants permission to get the query results	Read	<a href="#">workgroup</a> *		
<a href="#">GetQueryResultsStream</a>	Grants permission to get the query results stream	Read	<a href="#">workgroup</a> *		
<a href="#">GetQueryRuntimeStatistics</a>	Grants permission to get runtime statistics for the specified query execution	Read	<a href="#">workgroup</a> *		
<a href="#">GetResourceDashboard</a>	Grants permission to get a Live UI/Persistence UI for a session	Read	<a href="#">workgroup</a> *		
			<a href="#">session</a>		
<a href="#">GetSession</a>	Grants permission to get a session	Read	<a href="#">workgroup</a> *		
			<a href="#">session</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSessionEndpoint</a>	Grants permission to get a connection endpoint and authentication token for a given session Id	Write	<a href="#">workgroup</a> * -		
<a href="#">GetSessionStatus</a>	Grants permission to get a session status	Read	<a href="#">workgroup</a> * -		
<a href="#">GetTable</a>	Grants permission to enable access to the specified table. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			
<a href="#">GetTableMetadata</a>	Grants permission to get a metadata about a table for a given datacatalog	Read	<a href="#">datacatalog*</a>		
<a href="#">GetTables</a>	Grants permission to enable access to tables. Applies only to AWS services managed policy and principals that use an Athena JDBC driver version 1.1.0	Read			
<a href="#">GetWorkgroup</a>	Grants permission to get a workgroup	Read	<a href="#">workgroup</a> * -		
<a href="#">ImportNotebook</a>	Grants permission to import a notebook	Write	<a href="#">workgroup</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplicationDPU Sizes</a>	Grants permission to return a list of ApplicationRuntimeIds	List			
<a href="#">ListCalculationExecutions</a>	Grants permission to return a list of calculation executions	List	<a href="#">workgroup</a> *		
<a href="#">ListCapacityReservations</a>	Grants permission to return a list of capacity reservations for the specified AWS account	List			
<a href="#">ListDataCatalogs</a>	Grants permission to return a list of datacatalogs for the specified AWS account	List			
<a href="#">ListDatabases</a>	Grants permission to return a list of databases for a given datacatalog	List	<a href="#">datacatalog</a> *		
<a href="#">ListEngineVersions</a>	Grants permission to return a list of athena engine versions for the specified AWS account	Read			
<a href="#">ListExecutors</a>	Grants permission to return a list of executors	List			
<a href="#">ListNamedQueries</a>	Grants permission to return a list of named queries in Amazon Athena for the specified AWS account	List	<a href="#">workgroup</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListNotebookMetadata</a>	Grants permission to return a list of notebooks for a given workgroup	List	<a href="#">workgroup</a> * -		
<a href="#">ListNotebookSessions</a>	Grants permission to return a list of sessions for a given notebook	List	<a href="#">workgroup</a> * -		
<a href="#">ListPreparedStatements</a>	Grants permission to return a list of prepared statements for the specified workgroup	List	<a href="#">workgroup</a> * -		
<a href="#">ListQueryExecutions</a>	Grants permission to return a list of query executions for the specified AWS account	Read	<a href="#">workgroup</a> * -		
<a href="#">ListSessions</a>	Grants permission to return a list of sessions for a given workgroup	List	<a href="#">workgroup</a> * -		
<a href="#">ListTableMetadata</a>	Grants permission to return a list of table metadata in a database for a given datacatalog	Read	<a href="#">datacatalog</a> *		
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for a resource	Read	<a href="#">capacity-reservation</a> *		
			<a href="#">datacatalog</a> *		
			<a href="#">session</a> *		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workgroup</a> * -		
<a href="#">ListWorkGroups</a>	Grants permission to return a list of workgroups for the specified AWS account	List			
<a href="#">PutCapacityAssignmentConfiguration</a>	Grants permission to assign capacity from a capacity reservation to queries	Write	<a href="#">capacity-reservation*</a>  <a href="#">workgroup</a> * -		
<a href="#">RunQuery</a>	Grants permission to run a query. Deprecated. Applies only to AWS services and principals that use Athena JDBC driver earlier than 1.1.0. Use StartQueryExecution otherwise	Write			
<a href="#">StartCalculationExecution</a>	Grants permission to start a calculation execution	Write	<a href="#">workgroup</a> * -		
<a href="#">StartQueryExecution</a>	Grants permission to start a query execution using an SQL query provided as a string	Write	<a href="#">workgroup</a> * -		
<a href="#">StartSession</a>	Grants permission to start a session	Write	<a href="#">workgroup</a> * -  <a href="#">session</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopCalculationExecution</a>	Grants permission to stop a calculation execution	Write	<a href="#">workgroup*</a>		
<a href="#">StopQueryExecution</a>	Grants permission to stop the specified query execution	Write	<a href="#">workgroup*</a>		
<a href="#">TagResource</a>	Grants permission to add a tag to a resource	Tagging	<a href="#">capacity-reservation*</a> <a href="#">datacatalog*</a> <a href="#">session*</a> <a href="#">workgroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TerminateSession</a>	Grants permission to terminate a session	Write	<a href="#">workgroup*</a> <a href="#">session</a>		
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">capacity-reservation*</a> <a href="#">datacatalog*</a> <a href="#">session*</a> <a href="#">workgroup*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCapacityReservation</a>	Grants permission to update a capacity reservation	Write	<a href="#">capacity-reservation*</a>		
<a href="#">UpdateDataCatalog</a>	Grants permission to update a datacatalog	Write	<a href="#">datacatalog*</a>		
<a href="#">UpdateNamedQuery</a>	Grants permission to update a named query specified	Write	<a href="#">workgroup*</a>		
<a href="#">UpdateNotebook</a>	Grants permission to update a notebook	Write	<a href="#">workgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotebookMetadata</a>	Grants permission to update notebook metadata	Write	<a href="#">workgroup</a> *		
<a href="#">UpdatePreparedStatement</a>	Grants permission to update a prepared statement	Write	<a href="#">workgroup</a> *		
<a href="#">UpdateWorkGroup</a>	Grants permission to update a workgroup	Write	<a href="#">workgroup</a> *		

## Resource types defined by Amazon Athena

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">datacatalog</a>	arn:\${Partition}:athena:\${Region}:\${Account}:datacatalog/\${DataCatalogName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workgroup</a>	arn:\${Partition}:athena:\${Region}:\${Account}:workgroup/\${WorkGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">capacity-reservation</a>	arn:\${Partition}:athena:\${Region}:\${Account}:capacity-reservation/\${CapacityReservationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">session</a>	arn:\${Partition}:athena:\${Region}:\${Account}:workgroup/\${WorkGroupName}/session/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Athena

Amazon Athena defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Audit Manager

AWS Audit Manager (service prefix: `auditmanager`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Audit Manager](#)
- [Resource types defined by AWS Audit Manager](#)
- [Condition keys for AWS Audit Manager](#)

## Actions defined by AWS Audit Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateAssessmentReportEvidenceFolder</a>	Grants permission to associate an evidence folder with an assessment report in AWS Audit Manager	Write	<a href="#">assessment*</a>		
<a href="#">BatchAssociateAssessmentReportEvidence</a>	Grants permission to associate a list of evidence to an assessment report in AWS Audit Manager	Write	<a href="#">assessment*</a>		
<a href="#">BatchCreateDelegationByAssessment</a>	Grants permission to create delegations for an assessment in AWS Audit Manager	Write	<a href="#">assessment*</a>		
			<a href="#">assessment*ControlSet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteDelegationByAssessment</a>	Grants permission to delete delegations for an assessment in AWS Audit Manager	Write	<a href="#">assessment*</a>		
			<a href="#">assessmentControlSet*</a>		
<a href="#">BatchDisassociateAssessmentReportEvidence</a>	Grants permission to disassociate a list of evidence from an assessment report in AWS Audit Manager	Write	<a href="#">assessment*</a>		
<a href="#">BatchImportEvidenceToAssessmentControl</a>	Grants permission to import a list of evidence to an assessment control in AWS Audit Manager	Write	<a href="#">assessmentControlSet*</a>		
<a href="#">CreateAssessment</a>	Grants permission to create an assessment to be used with AWS Audit Manager	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAssessmentFramework</a>	Grants permission to create a framework for use in AWS Audit Manager	Write	<a href="#">assessmentFramework*</a>  <a href="#">control*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateAssessmentReport</a>	Grants permission to create an assessment report in AWS Audit Manager	Write	<a href="#">assessment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateControl</a>	Grants permission to create a control to be used in AWS Audit Manager	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAssessment</a>	Grants permission to delete an assessment in AWS Audit Manager	Write	<a href="#">assessment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAssessmentFramework</a>	Grants permission to delete an assessment framework in AWS Audit Manager	Write	<a href="#">assessmentFramework*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAssessmentFrameworkShare</a>	Grants permission to delete a share request for a custom framework in AWS Audit Manager	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAssessmentReport</a>	Grants permission to delete an assessment report in AWS Audit Manager	Write	<a href="#">assessment*</a>		
<a href="#">DeleteControl</a>	Grants permission to delete a control in AWS Audit Manager	Write	<a href="#">control*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeregisterAccount</a>	Grants permission to deregister an account in AWS Audit Manager	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterOrganizationAdminAccount</a>	Grants permission to deregister the delegated administrator account for AWS Audit Manager	Write			
<a href="#">DisassociateAssessmentReportEvidenceFolder</a>	Grants permission to disassociate an evidence folder from an assessment report in AWS Audit Manager	Write	<a href="#">assessment*</a>		
<a href="#">GetAccountStatus</a>	Grants permission to get the status of an account in AWS Audit Manager	Read			
<a href="#">GetAssessment</a>	Grants permission to get an assessment created in AWS Audit Manager	Read	<a href="#">assessment*</a>		
<a href="#">GetAssessmentFramework</a>	Grants permission to get an assessment framework in AWS Audit Manager	Read	<a href="#">assessmentFramework*</a>		
<a href="#">GetAssessmentReportUrl</a>	Grants permission to get the URL for an assessment report in AWS Audit Manager	Read	<a href="#">assessment*</a>		
<a href="#">GetChangeLogs</a>	Grants permission to get changelogs for an assessment in AWS Audit Manager	Read	<a href="#">assessment*</a>		
<a href="#">GetControl</a>	Grants permission to get a control in AWS Audit Manager	Read	<a href="#">control*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDelegations</a>	Grants permission to get all delegations in AWS Audit Manager	List			
<a href="#">GetEvidence</a>	Grants permission to get evidence from AWS Audit Manager	Read	<a href="#">assessmentControls*</a>		
<a href="#">GetEvidenceByEvidenceFolder</a>	Grants permission to get all the evidence from an evidence folder in AWS Audit Manager	Read	<a href="#">assessmentControls*</a>		
<a href="#">GetEvidenceFileUploadUrl</a>	Grants permission to get a presigned Amazon S3 URL that can be used to upload a file as manual evidence	Read			
<a href="#">GetEvidenceFolder</a>	Grants permission to get the evidence folder from AWS Audit Manager	Read	<a href="#">assessmentControls*</a>		
<a href="#">GetEvidenceFoldersByAssessment</a>	Grants permission to get the evidence folders from an assessment in AWS Audit Manager	Read	<a href="#">assessment*</a>		
<a href="#">GetEvidenceFoldersByAssessmentControl</a>	Grants permission to get the evidence folders from an assessment control in AWS Audit Manager	Read	<a href="#">assessmentControls*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInsights</a>	Grants permission to get analytics data for all active assessments	Read			
<a href="#">GetInsightsByAssessment</a>	Grants permission to get analytics data for a specific active assessment	Read			
<a href="#">GetOrganizationAdminAccount</a>	Grants permission to get the delegated administrator account in AWS Audit Manager	Read			
<a href="#">GetServicesInScope</a>	Grants permission to get the services in scope for an assessment in AWS Audit Manager	Read			
<a href="#">GetSettings</a>	Grants permission to get all settings configured in AWS Audit Manager	Read			
<a href="#">ListAssessmentControlInsightsByControlDomain</a>	Grants permission to list analytics data for controls in a specific control domain and active assessment	List			
<a href="#">ListAssessmentFrameworkShareRequests</a>	Grants permission to list all sent or received share requests for custom frameworks in AWS Audit Manager	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssessmentFrameworks</a>	Grants permission to list all assessment frameworks in AWS Audit Manager	List			
<a href="#">ListAssessmentReports</a>	Grants permission to list all assessment reports in AWS Audit Manager	List			
<a href="#">ListAssessments</a>	Grants permission to list all assessments in AWS Audit Manager	List			
<a href="#">ListControlDomainInsights</a>	Grants permission to list analytics data for control domains across all active assessments	List			
<a href="#">ListControlDomainInsightsByAssessment</a>	Grants permission to list analytics data for control domains in a specific active assessment	List			
<a href="#">ListControlInsightsByControlDomain</a>	Grants permission to list analytics data for controls in a specific control domain across all active assessments	List			
<a href="#">ListControls</a>	Grants permission to list all controls in AWS Audit Manager	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListKeywordsForDataSource</a>	Grants permission to list all the data source keywords in AWS Audit Manager	List			
<a href="#">ListNotifications</a>	Grants permission to list all notifications in AWS Audit Manager	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS Audit Manager resource	Read	<a href="#">assessment</a>		
<a href="#">RegisterAccount</a>	Grants permission to register an account in AWS Audit Manager	Write	<a href="#">control</a>		
<a href="#">RegisterOrganizationAdminAccount</a>	Grants permission to register an account within the organization as the delegated administrator for AWS Audit Manager	Write			
<a href="#">StartAssessmentFrameworkShare</a>	Grants permission to create a share request for a custom framework in AWS Audit Manager	Write	<a href="#">assessmentFramework*</a>		
<a href="#">TagResource</a>	Grants permission to tag an AWS Audit Manager resource	Tagging	<a href="#">assessment</a>		
			<a href="#">assessmentFramework</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">control</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an AWS Audit Manager resource	Tagging	<a href="#">assessment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">assessmentFramework</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">control</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAssessment</a>	Grants permission to update an assessment in AWS Audit Manager	Write	<a href="#">assessment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAssessmentControl</a>	Grants permission to update an assessment control in AWS Audit Manager	Write	<a href="#">assessmentControlSet*</a>		
<a href="#">UpdateAssessmentControlSetStatus</a>	Grants permission to update the status of an assessment control set in AWS Audit Manager	Write	<a href="#">assessmentControlSet*</a>		
<a href="#">UpdateAssessmentFramework</a>	Grants permission to update an assessment framework in AWS Audit Manager	Write	<a href="#">assessmentFramework*</a>		
<a href="#">UpdateAssessmentFrameworkShare</a>	Grants permission to update a share request for a custom framework in AWS Audit Manager	Write	<a href="#">assessmentFramework*</a>		
<a href="#">UpdateAssessmentStatus</a>	Grants permission to update the status of an assessment in AWS Audit Manager	Write	<a href="#">assessment*</a>		
<a href="#">UpdateControl</a>	Grants permission to update a control in AWS Audit Manager	Write	<a href="#">control*</a>		
<a href="#">UpdateSettings</a>	Grants permission to update settings in AWS Audit Manager	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidateAssessmentReportIntegrity</a>	Grants permission to validate the integrity of an assessment report in AWS Audit Manager	Read			

## Resource types defined by AWS Audit Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">assessment</a>	arn:\${Partition}:auditmanager:\${Region}:\${Account}:assessment/\${AssessmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">assessmentFramework</a>	arn:\${Partition}:auditmanager:\${Region}:\${Account}:assessmentFramework/\${AssessmentFrameworkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">assessmentControlSet</a>	arn:\${Partition}:auditmanager:\${Region}:\${Account}:assessment/\${AssessmentId}/controlSet/\${ControlSetId}	
<a href="#">control</a>	arn:\${Partition}:auditmanager:\${Region}:\${Account}:control/\${ControlId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Audit Manager

AWS Audit Manager defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Aurora DSQL

Amazon Aurora DSQL (service prefix: `dsq1`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Aurora DSQL](#)
- [Resource types defined by Amazon Aurora DSQL](#)
- [Condition keys for Amazon Aurora DSQL](#)

## Actions defined by Amazon Aurora DSQL

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddPeerCluster</a> [permission only]	Grants permission to add a peer cluster to a multi-Region cluster	Write	<a href="#">Cluster*</a>		dsql:PutMultiRegionProperties
<a href="#">CreateCluster</a>	Grants permission to create new clusters	Write	<a href="#">Cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">dsql:WitnessRegion</a>	iam:CreateServiceLinkedRole
<a href="#">DbConnect</a>	Grants permission to connect to the database	Write	<a href="#">Cluster*</a>		
<a href="#">DbConnectAdmin</a>	Grants permission to connect to the database with admin role. Connecting with any	Write	<a href="#">Cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	other role requires DbConnect permission				
<a href="#">DeleteCluster</a>	Grants permission to delete a cluster and all of its data	Write	<a href="#">Cluster*</a>		
<a href="#">DeleteClusterPolicy</a>	Grants permission to remove the inline resource-based policy attached to a cluster	Write	<a href="#">Cluster*</a>		
<a href="#">GetBackupJob</a>	Grants permission to get the status of an Aurora DSQL cluster backup job	Read	<a href="#">Cluster*</a>		
<a href="#">GetCluster</a>	Grants permission to get information about a cluster	Read	<a href="#">Cluster*</a>		
<a href="#">GetClusterPolicy</a>	Grants permission to retrieve the inline resource-based policy attached to a cluster	Read	<a href="#">Cluster*</a>		
<a href="#">GetRestoreJob</a>	Grants permission to get the status of an Aurora DSQL cluster restore job	Read	<a href="#">Cluster*</a>		
<a href="#">GetVpcEndpointServiceName</a>	Grants permission to retrieve the VPC endpoint service name for a cluster	Read	<a href="#">Cluster*</a>		
<a href="#">InjectError</a> [permission only]	Grants permission to inject errors in targeted clusters	Write		<a href="#">dsql:FisActionId</a> <a href="#">dsql:FisTargetArns</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListClusters</a>	Grants permission to retrieve a list of clusters	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags on an Aurora DSQL resource	Read	<a href="#">Cluster*</a>		
<a href="#">PutClusterPolicy</a>	Grants permission to attach or update the inline resource-based policy attached to a cluster	Write	<a href="#">Cluster*</a>		
<a href="#">PutMultiRegionProperties</a> [permission only]	Grants permission to update multi-Region properties of a cluster	Write	<a href="#">Cluster*</a>		
<a href="#">PutWitnessRegion</a> [permission only]	Grants permission to configure and update the witness Region of a multi-Region cluster	Write	<a href="#">Cluster*</a>	<a href="#">dsql:WitnessRegion</a>	dsql:PutMultiRegionProperties
<a href="#">RemovePeerCluster</a> [permission only]	Grants permission to remove a peer cluster from a multi-Region cluster	Write	<a href="#">Cluster*</a>		dsql:PutMultiRegionProperties



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartBackupJob</a>	Grants permission to start a backup job for an Aurora DSQL cluster	Write	<a href="#">Cluster*</a>		
<a href="#">StartRestoreJob</a>	Grants permission to start a restore job for an Aurora DSQL cluster	Write	<a href="#">Cluster*</a>		dsql:CreateCluster iam:CreateServiceLinkedRole
<a href="#">StopBackupJob</a>	Grants permission to stop a backup job for an Aurora DSQL cluster	Write	<a href="#">Cluster*</a>		
<a href="#">StopRestoreJob</a>	Grants permission to stop a restore job for an Aurora DSQL Cluster	Write	<a href="#">Cluster*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to Aurora DSQL resources	Tagging	<a href="#">Cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from Aurora DSQL resources	Tagging	<a href="#">Cluster*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCluster</a>	Grants permission to modify cluster attributes	Write	<a href="#">Cluster*</a>	<a href="#">dsql:WitnessRegion</a>	

## Resource types defined by Amazon Aurora DSQL

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Cluster</a>	arn:\${Partition}:dsql:\${Region}:\${Account}:cluster/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Aurora DSQL

Amazon Aurora DSQL defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">dsq:FisActionId</a>	Filters access by the ID of an AWS FIS action	String
<a href="#">dsq:FisTargetArns</a>	Filters access by the ARN of an AWS FIS target	ArrayOfARN
<a href="#">dsq:WitnessRegion</a>	Filters access by the witness region of multi-Region clusters	String

## Actions, resources, and condition keys for AWS Auto Scaling

AWS Auto Scaling (service prefix: `autoscaling-plans`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Auto Scaling](#)
- [Resource types defined by AWS Auto Scaling](#)
- [Condition keys for AWS Auto Scaling](#)

## Actions defined by AWS Auto Scaling

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateScalingPlan</a>	Creates a scaling plan.	Write			
<a href="#">DeleteScalingPlan</a>	Deletes the specified scaling plan.	Write			
<a href="#">DescribeScalingPlanResources</a>	Describes the scalable resources in the specified scaling plan.	Read			
<a href="#">DescribeScalingPlans</a>	Describes the specified scaling plans or all of your scaling plans.	Read			
<a href="#">GetScalingPlanResourceForecastData</a>	Retrieves the forecast data for a scalable resource.	Read			
<a href="#">UpdateScalingPlan</a>	Updates a scaling plan.	Write			

## Resource types defined by AWS Auto Scaling

AWS Auto Scaling does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Auto Scaling, specify "Resource": "\*" in your policy.

## Condition keys for AWS Auto Scaling

Auto Scaling has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS B2B Data Interchange

AWS B2B Data Interchange (service prefix: b2bi) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS B2B Data Interchange](#)
- [Resource types defined by AWS B2B Data Interchange](#)
- [Condition keys for AWS B2B Data Interchange](#)

## Actions defined by AWS B2B Data Interchange

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCapability</a>	Grants permission to create a capability	Write	<a href="#">transformer</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePartnership</a>	Grants permission to create a partnership	Write	<a href="#">capability*</a>		
			<a href="#">profile*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateProfile</a>	Grants permission to create a profile	Write		<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStarterMappingTemplate</a>	Grants permission to generate a starter JSONATA/XSLT template	Write	<a href="#">transformer*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransformer</a>	Grants permission to create a transformer	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteCapability</a>	Grants permission to delete a capability	Write	<a href="#">capability*</a>		
<a href="#">DeletePartnership</a>	Grants permission to delete an partnership	Write	<a href="#">partnership*</a>		
<a href="#">DeleteProfile</a>	Grants permission to delete a profile	Write	<a href="#">profile*</a>		
<a href="#">DeleteTransformer</a>	Grants permission to delete a transformer	Write	<a href="#">transformer*</a>		
<a href="#">GenerateMapping</a>	Grants permission to generate a starter JSONATA/XSLT mapping template from Amazon Bedrock	Write	<a href="#">transformer*</a>		
<a href="#">GetCapability</a>	Grants permission to get a capability	Read	<a href="#">capability*</a>		
<a href="#">GetPartnership</a>	Grants permission to get a partnership	Read	<a href="#">partnership*</a>		
<a href="#">GetProfile</a>	Grants permission to get a profile	Read	<a href="#">profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTransformer</a>	Grants permission to get a transformer	Read	<a href="#">transformer*</a>		
<a href="#">GetTransformerJob</a>	Grants permission to get a transformer job	Read	<a href="#">transformer*</a>		
<a href="#">ListCapabilities</a>	Grants permission to list all capabilities	List			
<a href="#">ListPartnerships</a>	Grants permission to list all partnerships	List			
<a href="#">ListProfiles</a>	Grants permission to list all profiles	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a B2Bi resource	Read	<a href="#">capability</a>		
			<a href="#">partnership</a>		
			<a href="#">profile</a>		
			<a href="#">transformer</a>		
<a href="#">ListTransformers</a>	Grants permission to list all transformers	List			
<a href="#">StartTransformerJob</a>	Grants permission to transformer a document	Write	<a href="#">transformer*</a>		
<a href="#">TagResource</a>	Grants permission to tag a B2Bi resource	Tagging	<a href="#">capability</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">partnership</a>		
			<a href="#">profile</a>		
			<a href="#">transformer</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TestConversion</a>	Grants permission to convert a JSON/XML to an edi document	Write	<a href="#">transformer*</a>		
<a href="#">TestMapping</a>	Grants permission to map a sample file	Write	<a href="#">transformer*</a>		
<a href="#">TestParsing</a>	Grants permission to parse an edi document	Write	<a href="#">transformer*</a>		
<a href="#">UntagResource</a>	Grants permission to untag a B2Bi resource	Tagging	<a href="#">capability</a>		
			<a href="#">partnership</a>		
			<a href="#">profile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transformer</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCapability</a>	Grants permission to update a capability	Write	<a href="#">capability*</a>		
			<a href="#">transformer</a>		
<a href="#">UpdatePartnership</a>	Grants permission to update a partnership	Write	<a href="#">partnership*</a>		
			<a href="#">capability</a>		
<a href="#">UpdateProfile</a>	Grants permission to update a profile	Write	<a href="#">profile*</a>		
<a href="#">UpdateTransformer</a>	Grants permission to update a transformer	Write	<a href="#">transformer*</a>		

## Resource types defined by AWS B2B Data Interchange

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">profile</a>	arn:\${Partition}:b2bi:\${Region}:\${Account}:profile/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">capability</a>	arn:\${Partition}:b2bi:\${Region}:\${Account}:capability/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">partnership</a>	arn:\${Partition}:b2bi:\${Region}:\${Account}:partnership/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">transformer</a>	arn:\${Partition}:b2bi:\${Region}:\${Account}:transformer/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS B2B Data Interchange

AWS B2B Data Interchange defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Backup

AWS Backup (service prefix: backup) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Backup](#)
- [Resource types defined by AWS Backup](#)
- [Condition keys for AWS Backup](#)

## Actions defined by AWS Backup

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateBackupVaultMpaApprovalTeam</a>	Grants permission to associate an MPA approval team with a backup vault	Write	<a href="#">backupVault*</a>	<a href="#">backup:MpaApprovalTeamArn</a>	
<a href="#">CancelLegalHold</a>	Grants permission to cancel a legal hold	Write	<a href="#">legalHold*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyFromBackupVault</a> [permission only]	Grants permission to copy from a backup vault	Write	<a href="#">recoveryPoint*</a>	<a href="#">backup:CopyTargets</a> <a href="#">backup:CopyTargetOrgPaths</a>	
<a href="#">CopyIntoBackupVault</a> [permission only]	Grants permission to copy into a backup vault	Write	<a href="#">backupVault*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateBackupAccessPoint</a> [permission only]	Grants permission to create a new access point for backup instant access	Write	<a href="#">recoveryPoint*</a>		
<a href="#">CreateBackupPlan</a>	Grants permission to create a new backup plan	Write	<a href="#">backupPlan*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBackupSelection</a>	Grants permission to create a new resource assignment in a backup plan	Write	<a href="#">backupPlan*</a>		iam:PassRole
<a href="#">CreateBackupVault</a>	Grants permission to create a new backup vault	Write	<a href="#">backupVault*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateFramework</a>	Grants permission to create a new framework	Write	<a href="#">framework*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateLegalHold</a>	Grants permission to create a new legal hold	Write	<a href="#">legalHold*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLogicallyAirGappedBackupVault</a>	Grants permission to create a new logically air-gapped backup vault, a logical container where backups are stored	Write	<a href="#">backupVault*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">backup:MinimumRetentionDays</a> <a href="#">backup:MaximumRetentionDays</a>	
<a href="#">CreateReportPlan</a>	Grants permission to create a new report plan	Write	<a href="#">reportPlan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">backup:FrameworkArns</a>	
<a href="#">CreateRestoreAccessBackupVault</a>	Grants permission to create a restore access backup vault	Write	<a href="#">backupVault*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateRestoreTestingPlan</a>	Grants permission to create a new restore testing plan	Write	<a href="#">restoreTestingPlan*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRestoreTestingSelection</a>	Grants permission to create a new resource assignment in a restore testing plan	Write	<a href="#">restoreTestingPlan*</a>		iam:PassRole
<a href="#">CreateTieringConfiguration</a>	Grants permission to create a new tiering configuration	Write	<a href="#">tieringConfiguration*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteBackupAccessPoint</a> [permission only]	Grants permission to delete the access point	Write			
<a href="#">DeleteBackupPlan</a>	Grants permission to delete a backup plan	Write	<a href="#">backupPlan*</a>		
<a href="#">DeleteBackupSelection</a>	Grants permission to delete a resource assignment from a backup plan	Write	<a href="#">backupPlan*</a>		
<a href="#">DeleteBackupVault</a>	Grants permission to delete a backup vault	Write	<a href="#">backupVault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBackupVaultAccessPolicy</a>	Grants permission to delete backup vault access policy	Permissions management	<a href="#">backupVault*</a>		
<a href="#">DeleteBackupVaultLockConfiguration</a>	Grants permission to remove the lock configuration from a backup vault	Write	<a href="#">backupVault*</a>		
<a href="#">DeleteBackupVaultNotifications</a>	Grants permission to remove the notifications from a backup vault	Write	<a href="#">backupVault*</a>		
<a href="#">DeleteBackupVaultSharingPolicy</a> [permission only]	Grants permission to delete backup vault sharing policy	Permissions management	<a href="#">backupVault*</a>		
<a href="#">DeleteFramework</a>	Grants permission to delete a framework	Write	<a href="#">framework*</a>		
<a href="#">DeleteRecoveryPoint</a>	Grants permission to delete a recovery point from a backup vault	Write	<a href="#">recoveryPoint*</a>		
<a href="#">DeleteReportPlan</a>	Grants permission to delete a report plan	Write	<a href="#">reportPlan*</a>		
<a href="#">DeleteRestoreTestingPlan</a>	Grants permission to delete a restore testing plan	Write	<a href="#">restoreTestingPlan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRestoreTestingSelection</a>	Grants permission to delete a resource assignment from a restore testing plan	Write	<a href="#">restoreTestingPlan*</a>		
<a href="#">DeleteTieringConfiguration</a>	Grants permission to delete a tiering configuration	Write	<a href="#">tieringConfiguration*</a>		
<a href="#">DescribeBackupAccessPoint</a> [permission only]	Grants permission to return information about the specified access point	Read			
<a href="#">DescribeBackupJob</a>	Grants permission to describe a backup job	Read			
<a href="#">DescribeBackupVault</a>	Grants permission to describe a new backup vault with the specified name	Read	<a href="#">backupVault*</a>		
<a href="#">DescribeCopyJob</a>	Grants permission to describe a copy job	Read			
<a href="#">DescribeFramework</a>	Grants permission to describe a framework with the specified name	Read	<a href="#">framework*</a>		
<a href="#">DescribeGlobalSettings</a>	Grants permission to describe global settings	Read			
<a href="#">DescribeProtectedResource</a>	Grants permission to describe a protected resource	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRecoveryPoint</a>	Grants permission to describe a recovery point	Read	<a href="#">recoveryPoint*</a>		
<a href="#">DescribeRegionSettings</a>	Grants permission to describe region settings	Read			
<a href="#">DescribeReportJob</a>	Grants permission to describe a report job	Read			
<a href="#">DescribeReportPlan</a>	Grants permission to describe a report plan with the specified name	Read	<a href="#">reportPlan*</a>		
<a href="#">DescribeRestoreJob</a>	Grants permission to describe a restore job	Read			
<a href="#">DescribeScanJob</a>	Grants permission to describe a scan job	Read			
<a href="#">DisassociateBackupVaultMpaApprovalTeam</a>	Grants permission to disassociate an MPA approval team from a backup vault	Write	<a href="#">backupVault*</a>		
<a href="#">DisassociateRecoveryPoint</a>	Grants permission to disassociate a recovery point from a backup vault	Write	<a href="#">recoveryPoint*</a>		
<a href="#">DisassociateRecoveryPointFromParent</a>	Grants permission to disassociate a recovery point from its parent	Write	<a href="#">recoveryPoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportBackupPlanTemplate</a>	Grants permission to export a backup plan as a JSON	Read			
<a href="#">GetBackupPlan</a>	Grants permission to get a backup plan	Read	<a href="#">backupPlan*</a>		
<a href="#">GetBackupPlanFromJSON</a>	Grants permission to transform a JSON to a backup plan	Read			
<a href="#">GetBackupPlanFromTemplate</a>	Grants permission to transform a template to a backup plan	Read			
<a href="#">GetBackupPlanSelection</a>	Grants permission to get a backup plan resource assignment	Read	<a href="#">backupPlan*</a>		
<a href="#">GetBackupVaultAccessPolicy</a>	Grants permission to get backup vault access policy	Read	<a href="#">backupVault*</a>		
<a href="#">GetBackupVaultNotifications</a>	Grants permission to get backup vault notifications	Read	<a href="#">backupVault*</a>		
<a href="#">GetBackupVaultSharingPolicy</a> [permission only]	Grants permission to get backup vault sharing policy	Read	<a href="#">backupVault*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLegalHold</a>	Grants permission to get a legal hold	Read	<a href="#">legalHold</a> *		
<a href="#">GetRecoveryPointIndexDetails</a>	Grants permission to get indexing details for a recovery point	Read	<a href="#">recoveryPoint</a> *		
<a href="#">GetRecoveryPointRestoreMetadata</a>	Grants permission to get recovery point restore metadata	Read	<a href="#">recoveryPoint</a> *		
<a href="#">GetRestoreJobMetadata</a>	Grants permission to get the restore metadata associated with a restore job	Read			
<a href="#">GetRestoreTestingInferredMetadata</a>	Grants permission to get inferred metadata generated by restore testing	Read			
<a href="#">GetRestoreTestingPlan</a>	Grants permission to get a restore testing plan	Read	<a href="#">restoreTestingPlan</a> *		
<a href="#">GetRestoreTestingSelection</a>	Grants permission to get a restore testing plan resource assignment	Read	<a href="#">restoreTestingPlan</a> *		
<a href="#">GetSupportedResourceTypes</a>	Grants permission to get supported resource types	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTieringConfiguration</a>	Grants permission to describe a tiering configuration	Read	<a href="#">tieringConfiguration*</a>		
<a href="#">ListBackupJobSummaries</a>	Grants permission to list backup job summaries	List			
<a href="#">ListBackupJobs</a>	Grants permission to list backup jobs	List			
<a href="#">ListBackupPlanTemplates</a>	Grants permission to list backup plan templates provided by AWS Backup	List			
<a href="#">ListBackupPlanVersions</a>	Grants permission to list backup plan versions	List	<a href="#">backupPlan*</a>		
<a href="#">ListBackupPlans</a>	Grants permission to list backup plans	List			
<a href="#">ListBackupPlanSelections</a>	Grants permission to list resource assignments for a specific backup plan	List	<a href="#">backupPlan*</a>		
<a href="#">ListBackupVaults</a>	Grants permission to list backup vaults	List			
<a href="#">ListCopyJobSummaries</a>	Grants permission to list copy job summaries	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCopyJobs</a>	Grants permission to list copy jobs	List			
<a href="#">ListFrame works</a>	Grants permission to list frameworks	List			
<a href="#">ListIndexedRecoveryPoints</a>	Grants permission to get list indexed recovery points	List			
<a href="#">ListIndexedRecoveryPointsForSearch</a> [permission only]	Grants permission to list indexed recovery points to search	Permissions management			
<a href="#">ListLegal Holds</a>	Grants permission to list legal holds	List			
<a href="#">ListProtectedResources</a>	Grants permission to list protected resources by AWS Backup	List			
<a href="#">ListProtectedResourcesByBackupVault</a>	Grants permission to list protected resources inside a backup vault	List	<a href="#">backupVault*</a>		
<a href="#">ListRecoveryPointsByBackupVault</a>	Grants permission to list recovery points inside a backup vault	List	<a href="#">backupVault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecoveryPointsByLegalHold</a>	Grants permission to list recovery points by legal hold	List	<a href="#">legalHold</a> * -		
<a href="#">ListRecoveryPointsByResource</a>	Grants permission to list recovery points for a resource	List			
<a href="#">ListReportJobs</a>	Grants permission to list report jobs	List			
<a href="#">ListReportPlans</a>	Grants permission to list report plans	List			
<a href="#">ListRestoreAccessBackupVaults</a>	Grants permission to list a restore access backup vaults associated with a backup vault	List	<a href="#">backupVault*</a>		
<a href="#">ListRestoreJobSummaries</a>	Grants permission to list restore job summaries	List			
<a href="#">ListRestoreJobs</a>	Grants permission to list restore jobs	List			
<a href="#">ListRestoreJobsByProtectedResource</a>	Grants permission to list restore jobs for a protected resource	List			
<a href="#">ListRestoreTestingPlans</a>	Grants permission to list restore testing plans	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRestoreTestingSelections</a>	Grants permission to list resource assignments for a specific restore testing plan	List	<a href="#">restoreTestingPlan</a> *		
<a href="#">ListScanJobSummaries</a>	Grants permission to list scan job summaries	List			
<a href="#">ListScanJobs</a>	Grants permission to list scan jobs	List			
<a href="#">ListTags</a>	Grants permission to list tags for a resource	Read	<a href="#">backupPlan</a>		
			<a href="#">backupVault</a>		
			<a href="#">framework</a>		
			<a href="#">legalHold</a>		
			<a href="#">recoveryPoint</a>		
			<a href="#">reportPlan</a>		
			<a href="#">restoreTestingPlan</a>		
			<a href="#">tieringConfiguration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTieringConfigurations</a>	Grants permission to list tiering configurations	List			
<a href="#">PutBackupVaultAccessPolicy</a>	Grants permission to add an access policy to the backup vault	Permissions management	<a href="#">backupVault*</a>		
<a href="#">PutBackupVaultLockConfiguration</a>	Grants permission to add a lock configuration to the backup vault	Write	<a href="#">backupVault*</a>	<a href="#">backup:ChangeableForDays</a> <a href="#">backup:MinimumRetentionDays</a> <a href="#">backup:MaximumRetentionDays</a>	
<a href="#">PutBackupVaultNotifications</a>	Grants permission to add an SNS topic to the backup vault	Write	<a href="#">backupVault*</a>		
<a href="#">PutBackupVaultSharingPolicy</a> [permission only]	Grants permission to add a sharing policy to the backup vault	Permissions management	<a href="#">backupVault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutRestoreValidationResult</a>	Grants permission to put a restore validation result	Write			
<a href="#">RevokeRestoreAccessBackupVault</a>	Grants permission to revoke a restore access backup vault	Write	<a href="#">backupVault*</a>		
<a href="#">SearchRecoveryPoint</a> [permission only]	Grants permission to search a recovery point	Permissions management	<a href="#">recoveryPoint*</a>		
<a href="#">StartBackupJob</a>	Grants permission to start a new backup job	Write	<a href="#">backupVault*</a>		iam:PassRole
<a href="#">StartCopyJob</a>	Grants permission to copy a backup from a source backup vault to a destination backup vault	Write	<a href="#">recoveryPoint*</a>		iam:PassRole
<a href="#">StartReportJob</a>	Grants permission to start a new report job	Write	<a href="#">reportPlan*</a>		
<a href="#">StartRestoreJob</a>	Grants permission to start a new restore job	Write	<a href="#">recoveryPoint*</a>		iam:PassRole
<a href="#">StartScanJob</a>	Grants permission to start a new scan job	Write	<a href="#">recoveryPoint*</a>		iam:PassRole
<a href="#">StopBackupJob</a>	Grants permission to stop a backup job	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">backupPlan</a>		
			<a href="#">backupVault</a>		
			<a href="#">framework</a>		
			<a href="#">legalHold</a>		
			<a href="#">recoveryPoint</a>		
			<a href="#">reportPlan</a>		
			<a href="#">restoreTestingPlan</a>		
			<a href="#">tieringConfiguration</a>		
			<a href="#">aws:RequestTag/\${TagKey}</a>		
			<a href="#">aws:TagKeys</a>		
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">backupPlan</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">backupVault</a>		
			<a href="#">framework</a>		
			<a href="#">legalHold</a>		
			<a href="#">recoveryPoint</a>		
			<a href="#">reportPlan</a>		
			<a href="#">restoreTestingPlan</a>		
			<a href="#">tieringConfiguration</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBackupPlan</a>	Grants permission to update a backup plan	Write	<a href="#">backupPlan*</a>		iam:PassRole
<a href="#">UpdateFramework</a>	Grants permission to update a framework	Write	<a href="#">framework*</a>		
<a href="#">UpdateGlobalSettings</a>	Grants permission to update the current global settings for the AWS Account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRecoveryPointIndexSettings</a>	Grants permission to update recovery point index settings	Write	<a href="#">recoveryPoint*</a>	<a href="#">backup:Index</a>	
<a href="#">UpdateRecoveryPointLifecycle</a>	Grants permission to update the lifecycle of the recovery point	Write	<a href="#">recoveryPoint*</a>		
<a href="#">UpdateRegionSettings</a>	Grants permission to update the current service opt-in settings for the Region	Write			
<a href="#">UpdateReportPlan</a>	Grants permission to update a report plan	Write	<a href="#">reportPlan*</a>	<a href="#">backup:FrameworkActions</a>	
<a href="#">UpdateRestoreTestingPlan</a>	Grants permission to update a restore testing plan	Write	<a href="#">restoreTestingPlan*</a>		
<a href="#">UpdateRestoreTestingPlanSelection</a>	Grants permission to update a resource assignment in a restore testing plan	Write	<a href="#">restoreTestingPlan*</a>		iam:PassRole
<a href="#">UpdateTieringConfiguration</a>	Grants permission to update a tiering configuration	Write	<a href="#">tieringConfiguration*</a>		

## Resource types defined by AWS Backup

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">backupVault</a>	arn:\${Partition}:backup:\${Region}:\${Account}:backup-vault:\${BackupVaultName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">backupPlan</a>	arn:\${Partition}:backup:\${Region}:\${Account}:backup-plan:\${BackupPlanId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">recoveryPoint</a>	arn:\${Partition}:\${Vendor}:\${Region}:*:\${ResourceType}:\${RecoveryPointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">framework</a>	arn:\${Partition}:backup:\${Region}:\${Account}:framework:\${FrameworkName}-\${FrameworkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">reportPlan</a>	arn:\${Partition}:backup:\${Region}:\${Account}:report-plan:\${ReportPlanName}-\${ReportPlanId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">legalHold</a>	arn:\${Partition}:backup:\${Region}:\${Account}:legal-hold:\${LegalHoldId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">restoreTestingPlan</a>	arn:\${Partition}:backup:\${Region}:\${Account}:restore-testing-plan:\${RestoreTestingPlanName}-\${RestoreTestingPlanId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">tieringConfiguration</a>	arn:\${Partition}:backup:\${Region}:\${Account}:tiering-configuration:\${TieringConfigurationName}-\${TieringConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Backup

AWS Backup defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString
<a href="#">backup:ChangeableForDays</a>	Filters access by the value of the <code>ChangeableForDays</code> parameter	Numeric
<a href="#">backup:CopyTargetOrganizationPaths</a>	Filters access by the organization unit	ArrayOfString

Condition keys	Description	Type
<a href="#">backup:CopyTargets</a>	Filters access by the ARN of a backup vault	ArrayOfARN
<a href="#">backup:FrameworkArns</a>	Filters access by the Framework ARNs	ArrayOfARN
<a href="#">backup:Index</a>	Filters access by the value of Index parameter	String
<a href="#">backup:MaxRetentionDays</a>	Filters access by the value of the MaxRetentionDays parameter	Numeric
<a href="#">backup:MinRetentionDays</a>	Filters access by the value of the MinRetentionDays parameter	Numeric
<a href="#">backup:MPAApprovalTeamArn</a>	Filters access by the MPA Approval Team ARN of a backup vault	ARN

## Actions, resources, and condition keys for AWS Backup Gateway

AWS Backup Gateway (service prefix: backup-gateway) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Backup Gateway](#)
- [Resource types defined by AWS Backup Gateway](#)
- [Condition keys for AWS Backup Gateway](#)

## Actions defined by AWS Backup Gateway

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateGatewayToServer</a>	Grants permission to AssociateGatewayToServer	Write	<a href="#">gateway*</a> <a href="#">hypervisor*</a>		
<a href="#">Backup</a>	Grants permission to Backup	Write	<a href="#">virtualmachine*</a>		
<a href="#">CreateGateway</a>	Grants permission to to CreateGateway	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteGateway</a>	Grants permission to DeleteGateway	Write	<a href="#">gateway*</a>		
<a href="#">DeleteHypervisor</a>	Grants permission to DeleteHypervisor	Write	<a href="#">hypervisor*</a>		
<a href="#">DisassociateGatewayFromServer</a>	Grants permission to DisassociateGatewayFromServer	Write	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBandwidthRateLimitSchedule</a>	Grants permission to GetBandwidthRateLimitSchedule	Read	<a href="#">gateway*</a>		
<a href="#">GetGateway</a>	Grants permission to GetGateway	Read	<a href="#">gateway*</a>		
<a href="#">GetHypervisor</a>	Grants permission to GetHypervisor	Read	<a href="#">hypervisor*</a>		
<a href="#">GetHypervisorPropertyMappings</a>	Grants permission to GetHypervisorPropertyMappings	Read	<a href="#">hypervisor*</a>		
<a href="#">GetVirtualMachine</a>	Grants permission to GetVirtualMachine	Read	<a href="#">virtualmachine*</a>		
<a href="#">ImportHypervisorConfiguration</a>	Grants permission to ImportHypervisorConfiguration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListGateways</a>	Grants permission to ListGateways	Read			
<a href="#">ListHypervisors</a>	Grants permission to ListHypervisors	Read			
<a href="#">ListTagsForResource</a>	Grants permission to ListTagsForResource	Read	<a href="#">gateway</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">hypervisor</a>		
			<a href="#">virtualmachine</a>		
<a href="#">ListVirtualMachines</a>	Grants permission to ListVirtualMachines	Read			
<a href="#">PutBandwidthRateLimitSchedule</a>	Grants permission to PutBandwidthRateLimitSchedule	Write	<a href="#">gateway*</a>		
<a href="#">PutHypervisorPropertyMappings</a>	Grants permission to PutHypervisorPropertyMappings	Write	<a href="#">hypervisor*</a>		iam:PassRole
<a href="#">PutMaintenanceStartTime</a>	Grants permission to PutMaintenanceStartTime	Write	<a href="#">gateway*</a>		
<a href="#">Restore</a>	Grants permission to Restore	Write	<a href="#">hypervisor*</a>		
<a href="#">StartVirtualMachinesMetadataSync</a>	Grants permission to StartVirtualMachinesMetadataSync	Write	<a href="#">hypervisor*</a>		iam:PassRole
<a href="#">TagResource</a>	Grants permission to TagResource	Tagging	<a href="#">gateway</a>		
			<a href="#">hypervisor</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">virtualmachine</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TestHypervisorConfiguration</a>	Grants permission to TestHypervisorConfiguration	Write	<a href="#">gateway*</a>		
<a href="#">UntagResource</a>	Grants permission to UntagResource	Tagging	<a href="#">gateway</a> <a href="#">hypervisor</a> <a href="#">virtualmachine</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateGatewayInformation</a>	Grants permission to UpdateGatewayInformation	Write	<a href="#">gateway*</a>		
<a href="#">UpdateGatewaySoftwareNow</a>	Grants permission to UpdateGatewaySoftwareNow	Write	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateHypervisor</a>	Grants permission to UpdateHypervisor	Write	<a href="#">gateway*</a>		

## Resource types defined by AWS Backup Gateway

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">gateway</a>	arn:\${Partition}:backup-gateway:\${Region}:\${Account}:gateway/\${GatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">hypervisor</a>	arn:\${Partition}:backup-gateway:\${Region}:\${Account}:hypervisor/\${HypervisorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">virtualmachine</a>	arn:\${Partition}:backup-gateway:\${Region}:\${Account}:vm/\${VirtualmachineId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Backup Gateway

AWS Backup Gateway defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Backup Search

AWS Backup Search (service prefix: `backup-search`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Backup Search](#)
- [Resource types defined by AWS Backup Search](#)
- [Condition keys for AWS Backup Search](#)

## Actions defined by AWS Backup Search

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSearchJob</a>	Grants permission to get details of a search job	Read	<a href="#">searchJob</a> *		
<a href="#">GetSearchResultExportJob</a>	Grants permission to get details of a search result export job	Read	<a href="#">searchResultExportJob</a> *		
<a href="#">ListSearchJobBackups</a>	Grants permission to list backups in scope of a search job	Read	<a href="#">searchJob</a> *		
<a href="#">ListSearchJobResults</a>	Grants permission to list results of a search job	Read	<a href="#">searchJob</a> *		
<a href="#">ListSearchJobs</a>	Grants permission to list search jobs	List			
<a href="#">ListSearchResultExportJobs</a>	Grants permission to list search result export jobs	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">searchResultExportJob</a>		
			<a href="#">searchJob</a>		
<a href="#">StartSearchJob</a>	Grants permission to create a search job	Write		<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartSearchResultExportJob</a>	Grants permission to start an export job for an existing search job	Write	<a href="#">searchJob*</a>	<a href="#">iam:PassRole</a>  <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopSearchJob</a>	Grants permission to stop an in-progress search job	Write	<a href="#">searchJob*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">searchExportJob</a>  <a href="#">searchJob</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">searchExportJob</a> <a href="#">searchJob</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Backup Search

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">searchJob</a>	arn:\${Partition}:backup-search:\${Region}:\${Account}:search-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">searchExportJob</a>	arn:\${Partition}:backup-search:\${Region}:\${Account}:search-export-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Backup Search

AWS Backup Search defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Backup storage

AWS Backup storage (service prefix: `backup-storage`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Backup storage](#)
- [Resource types defined by AWS Backup storage](#)
- [Condition keys for AWS Backup storage](#)

## Actions defined by AWS Backup storage


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CommitBackupJob</a> [permission only]	Grants permission to commit backup job	Write			
<a href="#">DeleteObjects</a> [permission only]	Grants permission to delete objects	Write			
<a href="#">DescribeBackupJob</a> [permission only]	Grants permission to describe backup job	Write			
<a href="#">GetBaseBackup</a>	Grants permission to get base backup	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">GetChunk</a> [permission only]	Grants permission to get data from a recovery point for a restore job	Write			
<a href="#">GetIncrementalBaseBackup</a> [permission only]	Grants permission to get incremental base backup	Write			
<a href="#">GetObjectMetadata</a> [permission only]	Grants permission to get metadata from a recovery point for a restore job	Write			
<a href="#">ListChunks</a> [permission only]	Grants permission to list data from a recovery point for a restore job	Write			
<a href="#">ListObjects</a> [permission only]	Grants permission to list data from a recovery point for a restore job	Write			
<a href="#">MountCapsule</a> [permission only]	Associates a KMS key to a backup vault	Write			
<a href="#">NotifyObjectComplete</a> [permission only]	Grants permission to mark an uploaded data as completed for a backup job	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutChunk</a> [permission only]	Grants permission to upload data to an AWS Backup-managed recovery point for a backup job	Write			
<a href="#">PutObject</a> [permission only]	Grants permission to put object	Write			
<a href="#">StartObject</a> [permission only]	Grants permission to upload data to an AWS Backup-managed recovery point for a backup job	Write			
<a href="#">UpdateObjectComplete</a> [permission only]	Grants permission to update object complete	Write			

## Resource types defined by AWS Backup storage

AWS Backup storage does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Backup storage, specify "Resource": "\*" in your policy.

## Condition keys for AWS Backup storage

Backup Storage has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Batch

AWS Batch (service prefix: `batch`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Batch](#)
- [Resource types defined by AWS Batch](#)
- [Condition keys for AWS Batch](#)

## Actions defined by AWS Batch

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelJob</a>	Grants permission to cancel a job in an AWS Batch job queue in your account	Write	<a href="#">job*</a>		
<a href="#">CreateComputeEnvironment</a>	Grants permission to create an AWS Batch compute environment in your account	Write	<a href="#">compute-environment*</a>	<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConsumableResource</a>	Grants permission to create an AWS Batch consumable resource in your account	Write	<a href="#">consumable-resource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateJobQueue</a>	Grants permission to create an AWS Batch job queue in your account	Write	<a href="#">job-queue*</a> <a href="#">compute-environment</a> <a href="#">scheduling-policy</a> <a href="#">service-environment</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateQuotaShare</a>	Grants permission to create an AWS Batch quota share in your account	Write	<a href="#">job-queue*</a>  <a href="#">quota-share*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateSchedulingPolicy</a>	Grants permission to create an AWS Batch scheduling policy in your account	Write	<a href="#">scheduling-policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServiceEnvironment</a>	Grants permission to create an AWS Batch service environment in your account	Write	<a href="#">service-environment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole
<a href="#">DeleteComputeEnvironment</a>	Grants permission to delete an AWS Batch compute environment in your account	Write	<a href="#">compute-environment*</a>		
<a href="#">DeleteConsumableResource</a>	Grants permission to delete an AWS Batch consumable resource in your account	Write	<a href="#">consumable-resource*</a>		
<a href="#">DeleteJobQueue</a>	Grants permission to delete an AWS Batch job queue in your account	Write	<a href="#">job-queue*</a>		
<a href="#">DeleteQuotaShare</a>	Grants permission to delete an AWS Batch quota share in your account	Write	<a href="#">quota-share*</a>		
<a href="#">DeleteSchedulingPolicy</a>	Grants permission to delete an AWS Batch scheduling policy in your account	Write	<a href="#">scheduling-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteServiceEnvironment</a>	Grants permission to delete an AWS Batch service environment in your account	Write	<a href="#">service-environment*</a>		
<a href="#">DeregisterJobDefinition</a>	Grants permission to deregister an AWS Batch job definition in your account	Write	<a href="#">job-definition-revision*</a>		
<a href="#">DescribeComputeEnvironments</a>	Grants permission to describe one or more AWS Batch compute environments in your account	Read			
<a href="#">DescribeConsumableResource</a>	Grants permission to describe one or more AWS Batch consumable resource in your account	Read	<a href="#">consumable-resource*</a>		
<a href="#">DescribeJobDefinitions</a>	Grants permission to describe one or more AWS Batch job definitions in your account	Read			
<a href="#">DescribeJobQueues</a>	Grants permission to describe one or more AWS Batch job queues in your account	Read			
<a href="#">DescribeJobs</a>	Grants permission to describe a list of AWS Batch jobs in your account	Read			
<a href="#">DescribeQuotaShare</a>	Grants permission to describe an AWS Batch quota share in your account	Read	<a href="#">quota-share*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSchedulingPolicies</a>	Grants permission to describe one or more AWS Batch scheduling policies in your account	Read			
<a href="#">DescribeServiceEnvironments</a>	Grants permission to describe one or more AWS Batch service environments in your account	Read			
<a href="#">DescribeServiceJob</a>	Grants permission to describe a AWS Batch service job in your account	Read			
<a href="#">GetJobQueueSnapshot</a>	Grants permission to get a snapshot of an AWS Batch job queue in your account	Read	<a href="#">job-queue*</a>		
<a href="#">ListConsumableResources</a>	Grants permission to list AWS Batch consumable resources in your account	List			
<a href="#">ListJobs</a>	Grants permission to list jobs for a specified AWS Batch job queue in your account	List			
<a href="#">ListJobsByConsumableResource</a>	Grants permission to list AWS Batch jobs that require a specific consumable resource in your account	List	<a href="#">consumable-resource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListQuotaShares</a>	Grants permission to list AWS Batch quota shares in your account	List	<a href="#">job-queue*</a>		
<a href="#">ListSchedulingPolicies</a>	Grants permission to list AWS Batch scheduling policies in your account	Read			
<a href="#">ListServiceJobs</a>	Grants permission to list service jobs for a specified AWS Batch job queue in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS Batch resource in your account	Read	<a href="#">compute-environment</a>		
			<a href="#">consumable-resource</a>		
			<a href="#">job</a>		
			<a href="#">job-definition-revision</a>		
			<a href="#">job-queue</a>		
			<a href="#">quota-share</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">scheduling-policy</a>		
			<a href="#">service-environment</a>		
			<a href="#">service-job</a>		
<a href="#">RegisterJobDefinition</a>	Grants permission to register an AWS Batch job definition in your account	Write	<a href="#">job-definition*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">consumable-resource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">batch:Use</a> <a href="#">r</a> <a href="#">batch:Privileged</a> <a href="#">batch:Image</a> <a href="#">batch:LogDriver</a> <a href="#">batch:AWSLogsGroup</a> <a href="#">batch:AWSLogsRegion</a> <a href="#">batch:AWSLogsStreamPrefix</a> <a href="#">batch:AWSLogsCreateGroup</a> <a href="#">batch:EKSServiceAccountName</a> <a href="#">batch:EKSImage</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">batch:EKS RunAsUser</a>  <a href="#">batch:EKS RunAsGroup</a>  <a href="#">batch:EKS Privileged</a>  <a href="#">batch:EKS Namespace</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">SubmitJob</a>	Grants permission to submit an AWS Batch job from a job definition in your account	Write	<a href="#">job*</a>          <a href="#">job-queue*</a>	<a href="#">batch:ShareIdentifier</a>  <a href="#">batch:EKS Image</a>  <a href="#">batch:EKS Namespace</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">consumable-resource</a>		
			<a href="#">job-definition</a>		
			<a href="#">job-definition-revision</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">SubmitServiceJob</a>	Grants permission to submit an AWS Batch service job	Write	<a href="#">job-queue*</a>		
			<a href="#">service-job*</a>	<a href="#">batch:ShareIdentifier</a>	
			<a href="#">quota-share</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">batch:SchedulingPriority</a>	
<a href="#">TagResource</a>	Grants permission to tag an AWS Batch resource in your account	Tagging	<a href="#">compute-environment</a> <a href="#">consumable-resource</a> <a href="#">job</a> <a href="#">job-definition-revision</a> <a href="#">job-queue</a> <a href="#">quota-share</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">scheduling-policy</a>		
			<a href="#">service-environment</a>		
			<a href="#">service-job</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TerminateJob</a>	Grants permission to terminate a job in an AWS Batch job queue in your account	Write	<a href="#">job*</a>		
<a href="#">TerminateServiceJob</a>	Grants permission to terminate a service job in an AWS Batch job queue in your account	Write	<a href="#">service-job*</a>		
<a href="#">UntagResource</a>	Grants permission to untag an AWS Batch resource in your account	Tagging	<a href="#">compute-environment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">consumable-resource</a>		
			<a href="#">job</a>		
			<a href="#">job-definition-revision</a>		
			<a href="#">job-queue</a>		
			<a href="#">quota-share</a>		
			<a href="#">scheduling-policy</a>		
			<a href="#">service-environment</a>		
			<a href="#">service-job</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateComputeEnvironment</a>	Grants permission to update an AWS Batch compute environment in your account	Write	<a href="#">compute-environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConsumableResource</a>	Grants permission to update an AWS Batch consumable resource in your account	Write	<a href="#">consumable-resource*</a>		
<a href="#">UpdateJobQueue</a>	Grants permission to update an AWS Batch job queue in your account	Write	<a href="#">job-queue*</a>		
			<a href="#">compute-environment</a>		
			<a href="#">scheduling-policy</a>		
<a href="#">UpdateQuotaShare</a>	Grants permission to update an AWS Batch quota share in your account	Write	<a href="#">quota-share*</a>		
<a href="#">UpdateSchedulingPolicy</a>	Grants permission to update an AWS Batch scheduling policy in your account	Write	<a href="#">scheduling-policy*</a>		
<a href="#">UpdateServiceEnvironment</a>	Grants permission to update an AWS Batch service environment in your account	Write	<a href="#">service-environment*</a>		
<a href="#">UpdateServiceJob</a>	Grants permission to update a service job in an AWS Batch job queue in your account	Write	<a href="#">service-job*</a>		
				<a href="#">batch:SchedulingPriority</a>	

## Resource types defined by AWS Batch

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">compute-environment</a>	arn:\${Partition}:batch:\${Region}:\${Account}:compute-environment/\${ComputeEnvironmentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job-queue</a>	arn:\${Partition}:batch:\${Region}:\${Account}:job-queue/\${JobQueueName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job-definition</a>	arn:\${Partition}:batch:\${Region}:\${Account}:job-definition/\${JobDefinitionName}	
<a href="#">job-definition-revision</a>	arn:\${Partition}:batch:\${Region}:\${Account}:job-definition/\${JobDefinitionName}:\${Revision}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job</a>	arn:\${Partition}:batch:\${Region}:\${Account}:job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">scheduling-policy</a>	arn:\${Partition}:batch:\${Region}:\${Account}:scheduling-policy/\${SchedulingPolicyName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service-environment</a>	arn:\${Partition}:batch:\${Region}:\${Account}:service-environment/\${ServiceEnvironmentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">service-job</a>	arn:\${Partition}:batch:\${Region}:\${Account}:service-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">consumable-resource</a>	arn:\${Partition}:batch:\${Region}:\${Account}:consumable-resource/\${ConsumableResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">quota-share</a>	arn:\${Partition}:batch:\${Region}:\${Account}:job-queue/\${JobQueueName}/quota-share/\${QuotaShareName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Batch

AWS Batch defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">batch:AWSLogsCreateGroup</a>	Filters access by the specified logging driver to determine whether awslogs group will be created for the logs	Bool

Condition keys	Description	Type
<a href="#">batch:AWSLogsGroup</a>	Filters access by the awslogs group where the logs are located	String
<a href="#">batch:AWSLogsRegion</a>	Filters access by the region where the logs are sent to	String
<a href="#">batch:AWSLogsStreamPrefix</a>	Filters access by the awslogs log stream prefix	String
<a href="#">batch:EKSImage</a>	Filters access by the image used to start a container for an Amazon EKS job	String
<a href="#">batch:EKSNamespace</a>	Filters access by the namespace of a cluster used to run the pod for an Amazon EKS job	String
<a href="#">batch:EKSPrivileged</a>	Filters access by the specified privileged parameter value that determines whether the container is given elevated privileges on the host container instance (similar to the root user) for an Amazon EKS job	Bool
<a href="#">batch:EKSRunAsGroup</a>	Filters access by the specified group numeric ID (gid) used to start a container in an Amazon EKS job	Numeric
<a href="#">batch:EKSRunAsUser</a>	Filters access by the specified user numeric ID (uid) used to start a a container in an Amazon EKS job	Numeric
<a href="#">batch:EKSServiceAccountName</a>	Filters access by the name of the service account used to run the pod for an Amazon EKS job	String
<a href="#">batch:Image</a>	Filters access by the image used to start a container	String
<a href="#">batch:LogDriver</a>	Filters access by the log driver used for the container	String



Condition keys	Description	Type
<a href="#">batch:Privileged</a>	Filters access by the specified privileged parameter value that determines whether the container is given elevated privileges on the host container instance (similar to the root user)	Bool
<a href="#">batch:SchedulingPriority</a>	Filters access by the scheduling priority for jobs in the job queue	Numeric
<a href="#">batch:ShareIdentifier</a>	Filters access by the share identifier used inside submit job	String
<a href="#">batch:User</a>	Filters access by user name or numeric uid used inside the container	String

## Actions, resources, and condition keys for Amazon Bedrock

Amazon Bedrock (service prefix: `bedrock`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Bedrock](#)
- [Resource types defined by Amazon Bedrock](#)
- [Condition keys for Amazon Bedrock](#)

## Actions defined by Amazon Bedrock

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for a knowledge base	Permissions management	<a href="#">knowledge-base</a>		
<a href="#">ApplyGuardrail</a>	Grants permission to apply a guardrail	Read	<a href="#">guardrail*</a> <a href="#">guardrail-profile</a>		
<a href="#">AssociateAgentCollaborator</a>	Grants permission to associate another existing agent as a collaborator to an existing agent	Write	<a href="#">agent*</a>		
<a href="#">AssociateAgentKnowledgeBase</a>	Grants permission to associate a knowledge base with an agent	Write	<a href="#">agent*</a> <a href="#">knowledge-base*</a>		
<a href="#">AssociateThirdPartyKnowledgeBase</a> [permission only]	Grants permission to use 3rd party platform to store knowledge data	Write		<a href="#">bedrock:ThirdPartyKnowledgeBaseCredentialsSecretArn</a>	
<a href="#">BatchDeleteEvaluationJob</a>	Grants permission to batch delete list of bedrock evaluation jobs	Write	<a href="#">evaluation-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CallWithBearerToken</a>	Grants permission to use bearer token	Read		<a href="#">bedrock:BearerTokenType</a>	
<a href="#">CancelAutomatedReasoningPolicyBuildWorkflow</a>	Grants permission to cancel a build workflow for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		
<a href="#">CopyBlueprintStage</a>	Grants permission to copy a blueprint from one stage to another	Write	<a href="#">blueprint*</a>		
<a href="#">CountTokens</a>	Grants permission to count the number of tokens in an input prompt	Read	<a href="#">foundation-model*</a>		
<a href="#">CreateAgent</a>	Grants permission to create a new agent and a test agent alias pointing to the DRAFT agent version	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAgentActionGroup</a>	Grants permission to create a new action group in an existing agent	Write	<a href="#">agent*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAgentAlias</a>	Grants permission to create a new alias for an agent	Write	<a href="#">agent*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAutomatedReasoningPolicy</a>	Grants permission to create a new automated reasoning policy	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAutomatedReasoningPolicyTestCase</a>	Grants permission to create a test case for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAutomatedReasoningPolicyVersion</a>	Grants permission to create a new automated reasoning policy version	Write	<a href="#">automated-reasoning-policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBlueprint</a>	Grants permission to create a blueprint for custom output from data automation	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBlueprintVersion</a>	Grants permission to create a new version for an existing blueprint	Write	<a href="#">blueprint*</a>		
<a href="#">CreateCustomModel</a>	Grants permission to create a custom model into Bedrock	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomModelDeployment</a>	Grants permission to create a custom model deployment for custom model	Write	<a href="#">custom-model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataAutomationProject</a>	Grants permission to create a data automation project	Write	<a href="#">blueprint</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataSource</a>	Grants permission to create a data source	Write	<a href="#">knowledge-base*</a>		
<a href="#">CreateEvaluationJob</a>	Grants permission to create a job for evaluation foundation models or custom models	Write	<a href="#">custom-model*</a> <a href="#">default-prompt-router*</a> <a href="#">foundation-model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">prompt-router*</a>		
<a href="#">CreateFlow</a>	Grants permission to create a prompt flow	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFlowAlias</a>	Grants permission to create an alias of a prompt flow	Write	<a href="#">flow*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFlowVersion</a>	Grants permission to create an immutable version of a prompt flow	Write	<a href="#">flow*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFoundationModelAgreement</a>	Grants permission to create a new foundation model agreement	Write			
<a href="#">CreateGuardrail</a>	Grants permission to create a new guardrail	Write	<a href="#">automated-reasoning-policy</a>		
			<a href="#">automated-reasoning-policy-version</a>		
			<a href="#">guardrail-profile</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateGuardrailVersion</a>	Grants permission to create a new guardrail version	Write	<a href="#">guardrail*</a>		
<a href="#">CreateInferenceProfile</a>	Grants permission to create inference profiles	Write	<a href="#">application-inference-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">foundation-model*</a>		
			<a href="#">inference-profile*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateInvocation</a>	Grants permission to create a new invocation in an existing session	Write	<a href="#">session*</a>		
<a href="#">CreateKnowledgeBase</a>	Grants permission to create a knowledge base	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMarketplaceModelEndpoint</a>	Grants permission to create a marketplace model endpoint	Write			
<a href="#">CreateModelCopyJob</a>	Grants permission to create a job for copying a custom model across region or across account	Write	<a href="#">custom-model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateModelCustomizationJob</a>	Grants permission to create a job for customizing the model with your custom training data	Write	<a href="#">custom-model*</a>  <a href="#">foundation-model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateModelEvaluationJob</a>	Grants permission to create a job for evaluation foundation models or custom models	Write	<a href="#">custom-model*</a>  <a href="#">foundation-model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateModelImportJob</a>	Grants permission to create a job for importing model into Bedrock	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateModelInvocationJob</a>	Grants permission to create a new model invocation job	Write	<a href="#">custom-model*</a> <a href="#">foundation-model*</a> <a href="#">model-invocation-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePrompt</a>	Grants permission to create a prompt	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePromptRouter</a>	Grants permission to create a custom prompt router	Write	<a href="#">application-inference-profile*</a> <a href="#">foundation-model*</a> <a href="#">inference-profile*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePromptVersion</a>	Grants permission to create a version of a prompt	Write	<a href="#">prompt*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProvisionedModelThroughput</a>	Grants permission to create a new provisioned model throughput	Write	<a href="#">custom-model*</a>		
			<a href="#">foundation-model*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSession</a>	Grants permission to create a new session	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAgent</a>	Grants permission to delete an Agent that you created earlier	Write	<a href="#">agent*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAgentActionGroup</a>	Grants permission to delete an actionGroup that you created earlier	Write	<a href="#">agent*</a>		
<a href="#">DeleteAgentAlias</a>	Grants permission to delete an AgentAlias that you created earlier	Write	<a href="#">agent-alias*</a>		
<a href="#">DeleteAgentMemory</a>	Grants permission to delete existing memory for an alias	Write	<a href="#">agent-alias*</a>		
<a href="#">DeleteAgentVersion</a>	Grants permission to delete an Agent Version that you created earlier	Write	<a href="#">agent*</a>		
<a href="#">DeleteAutomatedReasoningPolicy</a>	Grants permission to delete an automated reasoning policy or its version	Write	<a href="#">automated-reasoning-policy*</a>		
			<a href="#">automated-reasoning-policy-version*</a>		
<a href="#">DeleteAutomatedReasoningPolicyBuildWorkflow</a>	Grants permission to delete a build workflow for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAutomatedReasoningPolicyTestCase</a>	Grants permission to delete a test case for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		
<a href="#">DeleteBlueprint</a>	Grants permission to delete a blueprint for data automation	Write	<a href="#">blueprint*</a>		
<a href="#">DeleteCustomModel</a>	Grants permission to delete a custom model that you created earlier	Write	<a href="#">custom-model*</a>		
<a href="#">DeleteCustomModelDeployment</a>	Grants permission to delete a custom model deployment that you created earlier	Write	<a href="#">custom-model-deployment*</a>		
<a href="#">DeleteDataAutomationProject</a>	Grants permission to delete a data automation project	Write	<a href="#">data-automation-project*</a>		
<a href="#">DeleteDataSource</a>	Grants permission to delete a data source	Write	<a href="#">knowledge-base*</a>		
<a href="#">DeleteEnforcedGuardrailConfiguration</a>	Grants permission to delete account-level enforced guardrail configuration	Write			
<a href="#">DeleteFlow</a>	Grants permission to delete a prompt flow	Write	<a href="#">flow*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFlowAlias</a>	Grants permission to delete an alias of a prompt flow	Write	<a href="#">flow-alias*</a>		
<a href="#">DeleteFlowVersion</a>	Grants permission to delete a version of a prompt flow	Write	<a href="#">flow*</a>		
<a href="#">DeleteFoundationModelAgreement</a>	Grants permission to delete a foundation model agreement that you created earlier	Write			
<a href="#">DeleteGuardrail</a>	Grants permission to delete a guardrail or its version	Write	<a href="#">guardrail*</a>		
<a href="#">DeleteImportedModel</a>	Grants permission to delete previously created Bedrock imported model	Write	<a href="#">imported-model*</a>		
<a href="#">DeleteInferenceProfile</a>	Grants permission to delete inference profiles	Write	<a href="#">application-inference-profile*</a>		
<a href="#">DeleteKnowledgeBase</a>	Grants permission to delete a knowledge base	Write	<a href="#">knowledge-base*</a>		
<a href="#">DeleteKnowledgeBaseDocuments</a>	Grants permission to delete documents from a knowledge base	Write	<a href="#">knowledge-base*</a>		
<a href="#">DeleteMarketplaceModelAgreement</a>	Grants permission to unsubscribe from a bedrock marketplace enabled AWS marketplace model	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMarketplaceModelEndpoint</a>	Grants permission to delete a marketplace model endpoint	Write	<a href="#">bedrock-marketplace-model-endpoint*</a>		
<a href="#">DeleteModelInvocationLoggingConfiguration</a>	Grants permission to delete an existing Invocation logging configuration	Write			
<a href="#">DeletePrompt</a>	Grants permission to delete a prompt or its version	Write	<a href="#">prompt*</a> <a href="#">prompt-version*</a>		
<a href="#">DeletePromptRouter</a>	Grants permission to delete a custom prompt router	Write	<a href="#">prompt-router*</a>		
<a href="#">DeleteProvisionedModelThroughput</a>	Grants permission to delete a provisioned model throughput that you created earlier	Write	<a href="#">provisioned-model*</a>		
<a href="#">DeleteResourcePolicy</a> [permission only]	Deletes a previously created Bedrock resource policy	Write	<a href="#">custom-model</a> <a href="#">guardrail</a> <a href="#">guardrail-profile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSession</a>	Grants permission to delete a Session that you created earlier	Write	<a href="#">session*</a>		
<a href="#">DeregisterMarketplaceModelEndpoint</a>	Grants permission to deregister a marketplace model endpoint to make it unusable in Bedrock Marketplace	Write	<a href="#">bedrock-marketplace-model-endpoint*</a>		
<a href="#">DetectGeneratedContent</a>	Grants permission to detect if the provided content is generated using Amazon Bedrock	Read	<a href="#">foundation-model*</a>		
<a href="#">DisassociateAgentCollaborator</a>	Grants permission to disassociate a collaborator that you associated earlier	Write	<a href="#">agent*</a>		
<a href="#">DisassociateAgentKnowledgeBase</a>	Grants permission to disassociate a knowledge base from the agent	Write	<a href="#">agent*</a> <a href="#">knowledge-base*</a>		
<a href="#">EndSession</a>	Grants permission to end a Session that you created earlier	Write	<a href="#">session*</a>		
<a href="#">ExportAutomatedReasoningPolicyVersion</a>	Grants permission to retrieve an automated reasoning policy version artifact	Read	<a href="#">automated-reasoning-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">automated-reasoning-policy-version*</a>		
<a href="#">GenerateQuery</a>	Grants permission to generate queries associated with user input	Read			
<a href="#">GetAgent</a>	Grants permission to retrieve an existing agent	Read	<a href="#">agent*</a>		
<a href="#">GetAgentActionGroup</a>	Grants permission to retrieve an existing action group	Read	<a href="#">agent*</a>		
<a href="#">GetAgentAlias</a>	Grants permission to retrieve an existing alias	Read	<a href="#">agent-alias*</a>		
<a href="#">GetAgentCollaborator</a>	Grants permission to retrieve an existing collaborator	Read	<a href="#">agent*</a>		
<a href="#">GetAgentKnowledgeBase</a>	Grants permission to describe a knowledge base associated with an agent	Read	<a href="#">agent-knowledge-base*</a>		
<a href="#">GetAgentMemory</a>	Grants permission to retrieve existing memory for an alias	Read	<a href="#">agent-alias*</a>		
<a href="#">GetAgentVersion</a>	Grants permission to retrieve an existing version of an agent	Read	<a href="#">agent*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAsyncInvoke</a>	Grants permission to get the properties associated with an asynchronous invocation that you have submitted	Read	<a href="#">async-invoke*</a>		
<a href="#">GetAutomatedReasoningPolicy</a>	Grants permission to retrieve an automated reasoning policy or its version	Read	<a href="#">automated-reasoning-policy*</a>		
			<a href="#">automated-reasoning-policy-version*</a>		
<a href="#">GetAutomatedReasoningPolicyAnnotations</a>	Grants permission to retrieve annotations for a build workflow for an automated reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		
<a href="#">GetAutomatedReasoningPolicyBuildWorkflow</a>	Grants permission to retrieve a build workflow for an automated reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		
<a href="#">GetAutomatedReasoningPolicyBuildWorkflowResultAssets</a>	Grants permission to retrieve assets for a build workflow for an automated reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAutomatedReasoningPolicyNextScenario</a>	Grants permission to retrieve the next unreviewed generated scenario for a build workflow for an automated reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		
<a href="#">GetAutomatedReasoningPolicyTestCase</a>	Grants permission to retrieve a test case for an automated reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		
<a href="#">GetAutomatedReasoningPolicyTestResult</a>	Grants permission to retrieve result for a test case for an automated reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		
<a href="#">GetBlueprint</a>	Grants permission to retrieve an existing blueprint for data automation	Read	<a href="#">blueprint*</a>		
<a href="#">GetBlueprintOptimizationStatus</a>	Grants permission to get the status of a blueprint optimization job	Read	<a href="#">blueprint-optimization-invo-cation*</a>		
<a href="#">GetBlueprintRecommendation</a> [permission only]	Grants permission to retrieve blueprint recommendation	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCustomModel</a>	Grants permission to get the properties associated with a Bedrock custom model that you have created	Read	<a href="#">custom-model*</a>		
<a href="#">GetCustomModelDeployment</a>	Grants permission to get the properties associated with a custom model deployment. Use this operation to get the status of a custom model deployment	Read	<a href="#">custom-model-deployment*</a>		
<a href="#">GetDataAutomationProject</a>	Grants permission to retrieve an existing data automation project	Read	<a href="#">data-automation-project*</a>		
<a href="#">GetDataAutomationStatus</a>	Grants permission to retrieve the status of a data automation invocation job	Read	<a href="#">data-automation-in-vocation-job*</a>		
<a href="#">GetDataSource</a>	Grants permission to retrieve an existing data source	Read	<a href="#">knowledge-base*</a>		
<a href="#">GetEvaluationJob</a>	Grants permission to get the properties associated with an evaluation job. Use this operation to get the status of an evaluation job	Read	<a href="#">evaluation-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExecutionFlowSnapshot</a>	Grants permission to retrieve the flow definition for a flow execution	Read	<a href="#">flow*</a>		
			<a href="#">flow-aliases*</a>		
			<a href="#">flow-execution*</a>		
<a href="#">GetFlow</a>	Grants permission to retrieve an existing prompt flow	Read	<a href="#">flow*</a>		
<a href="#">GetFlowAlias</a>	Grants permission to retrieve an existing alias of a prompt flow	Read	<a href="#">flow-aliases*</a>		
<a href="#">GetFlowExecution</a>	Grants permission to retrieve an existing execution of a flow alias	Read	<a href="#">flow*</a>		
			<a href="#">flow-aliases*</a>		
			<a href="#">flow-execution*</a>		
<a href="#">GetFlowVersion</a>	Grants permission to retrieve an existing version of a prompt flow	Read	<a href="#">flow*</a>		
<a href="#">GetFoundationModel</a>	Grants permission to get the properties associated with a Bedrock foundation model	Read	<a href="#">foundation-model*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFoundationModelAvailability</a>	Grants permission to get the availability of a foundation model	Read			
<a href="#">GetGuardrail</a>	Grants permission to retrieve a guardrail or its version	Read	<a href="#">guardrail*</a>		
<a href="#">GetImportedModel</a>	Grants permission to get the properties associated with Bedrock imported model	Read	<a href="#">imported-model*</a>		
<a href="#">GetInferenceProfile</a>	Grants permission to get the properties associated with an inference profile	Read	<a href="#">application-inference-profile*</a>		
<a href="#">GetIngestionJob</a>	Grants permission to retrieve an existing ingestion job	Read	<a href="#">knowledge-base*</a>		
<a href="#">GetInvocationStep</a>	Grants permission to get an invocation step from a session	Read	<a href="#">session*</a>		
<a href="#">GetKnowledgeBase</a>	Grants permission to retrieve an existing knowledge base	Read	<a href="#">knowledge-base*</a>		
<a href="#">GetKnowledgeBaseDocuments</a>	Grants permission to get details for documents in a knowledge base	Read	<a href="#">knowledge-base*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMarketplaceModelEndpoint</a>	Grants permission to get the properties of a marketplace model endpoint	Read	<a href="#">bedrock-marketplace-model-endpoint*</a>		
<a href="#">GetModelCopyJob</a>	Grants permission to get the properties associated with a model-copy job. Use this operation to get the status of a model-copy job	Read	<a href="#">model-copy-job*</a>		
<a href="#">GetModelCustomizationJob</a>	Grants permission to get the properties associated with a model-customization job. Use this operation to get the status of a model-customization job	Read	<a href="#">model-customization-job*</a>		
<a href="#">GetModelEvaluationJob</a>	Grants permission to get the properties associated with a model-evaluation job. Use this operation to get the status of a model-evaluation job	Read	<a href="#">model-evaluation-job*</a>		
<a href="#">GetModelImportJob</a>	Grants permission to get the properties associated with a model import job and is used to get the status of a model import job	Read	<a href="#">model-import-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetModelInvocationJob</a>	Grants permission to retrieve a model invocation job	Read	<a href="#">model-invocation-job*</a>		
<a href="#">GetModelInvocationLoggingConfiguration</a>	Grants permission to retrieve an existing Invocation logging configuration	Read			
<a href="#">GetPrompt</a>	Grants permission to retrieve an existing prompt or its version	Read	<a href="#">prompt*</a> <a href="#">prompt-version*</a>		
<a href="#">GetPromptRouter</a>	Grants permission to get the properties associated with a prompt router	Read	<a href="#">default-prompt-router*</a> <a href="#">prompt-router*</a>		
<a href="#">GetProvisionedModelThroughput</a>	Grants permission to retrieve a provisioned model throughput	Read	<a href="#">provisioned-model*</a>		
<a href="#">GetResourcePolicy</a> [permission only]	Gets the resource policy document for a Bedrock resource	Read	<a href="#">custom-model</a> <a href="#">guardrail</a> <a href="#">guardrail-profile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSession</a>	Grants permission to retrieve an existing session	Read	<a href="#">session*</a>		
<a href="#">GetUseCaseForModelAccess</a>	Grants permission to retrieve a use case for model access	Read			
<a href="#">IngestKnowledgeBaseDocuments</a>	Grants permission to directly ingest documents into a knowledge base	Write	<a href="#">knowledge-base*</a>		
<a href="#">InvokeAgent</a>	Grants permission to send user input (text-only) to the alias of an agent for Bedrock	Read	<a href="#">agent-alias*</a>		
<a href="#">InvokeAutomatedReasoningPolicy</a> [permission only]	Grants permission to invoke an Automated Reasoning policy	Read	<a href="#">automated-reasoning-policy*</a>		
			<a href="#">automated-reasoning-policy-version*</a>		
<a href="#">InvokeBlueprintOptimizationAsync</a>	Grants permission to invoke an async job to perform blueprint optimization	Write	<a href="#">blueprint*-</a>		
			<a href="#">data-automation-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">InvokeBlueprintRecommendationAsync</a> [permission only]	Grants permission to invoke blueprint recommendations asynchronously	Write	<a href="#">data-automation-profile*</a>		
<a href="#">InvokeBuilder</a> [permission only]	Grants permission to use the conversational builder which aids in building supported bedrock resources	Write			
<a href="#">InvokeDataAutomation</a>	Grants permission to invoke a call to Sync API of Bedrock data automation	Write	<a href="#">blueprint*</a> <a href="#">data-automation-profile*</a> <a href="#">data-automation-project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InvokeDataAutomationAsync</a>	Grants permission to invoke a Bedrock data automation job	Write	<a href="#">blueprint*</a>  <a href="#">data-automation-profile*</a>  <a href="#">data-automation-project*</a>	   <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">InvokeFlow</a>	Grants permission to invoke a prompt flow with user input	Read	<a href="#">flow-aliases*</a>		
<a href="#">InvokeInlineAgent</a>	Grants permission to send user input (text-only) to the inline agent for Bedrock	Read		<a href="#">bedrock:inlineAgentName</a>	
<a href="#">InvokeModel</a>	Grants permission to invoke the specified Bedrock model to run inference using the input provided in the request body	Read	<a href="#">application-inference-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">async-invoke*</a>		
			<a href="#">bedrock-marketplace-model-endpoint*</a>		
			<a href="#">custom-model-deployment*</a>		
			<a href="#">default-prompt-router*</a>		
			<a href="#">foundation-model*</a>		
			<a href="#">imported-model*</a>		
			<a href="#">inference-profile*</a>		
			<a href="#">prompt-router*</a>		
			<a href="#">provisioned-model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">bedrock:InferenceProfileArn</a> <a href="#">bedrock:PromptRouterArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">bedrock:GuardrailIdentifier</a> <a href="#">bedrock:ServiceTier</a>	
<a href="#">InvokeModelWithResponseStream</a>	Grants permission to invoke the specified Bedrock model to run inference using the input provided in the request body with streaming response	Read	<a href="#">application-inference-profile*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">bedrock-marketplace-model-endpoint*</a>		
			<a href="#">custom-model-deployment*</a>		
			<a href="#">default-prompt-router*</a>		
			<a href="#">foundation-model*</a>		
			<a href="#">imported-model*</a>		
			<a href="#">inference-profile*</a>		
			<a href="#">prompt-router*</a>		
			<a href="#">provisioned-model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">bedrock:InferenceProfileArn</a> <a href="#">bedrock:PromptRouterArn</a> <a href="#">bedrock:GuardrailIdentifier</a> <a href="#">bedrock:ServiceTier</a>	
<a href="#">InvokeTool</a>	Grants permission to invoke the specified Bedrock tool to run inference	Read	<a href="#">system-tool*</a>		
<a href="#">ListAgentActionGroups</a>	Grants permission to list action groups in an agent	List	<a href="#">agent*</a>		
<a href="#">ListAgentAliases</a>	Grants permission to list aliases for an agent	List	<a href="#">agent*</a>		
<a href="#">ListAgentCollaborators</a>	Grants permission to list collaborators for an agent	List	<a href="#">agent*</a>		
<a href="#">ListAgentKnowledgeBases</a>	Grants permission to list knowledge bases associated with an agent	List	<a href="#">agent*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAgent Versions</a>	Grants permission to list existing versions of an agent	List	<a href="#">agent*</a>		
<a href="#">ListAgents</a>	Grants permission to list existing agents	List			
<a href="#">ListAsync Invokes</a>	Grants permission to get a list of asynchronous invocations that you have submitted	List			
<a href="#">ListAutomatedReasoningPolicies</a>	Grants permission to list automated reasoning policies or its versions	List	<a href="#">automated-reasoning-policy</a>		
<a href="#">ListAutomatedReasoningPolicyBuildWorkflows</a>	Grants permission to list build workflows for an automated reasoning policy	List	<a href="#">automated-reasoning-policy*</a>		
<a href="#">ListAutomatedReasoningPolicyTestCases</a>	Grants permission to list test cases for an automated reasoning policy	List	<a href="#">automated-reasoning-policy*</a>		
<a href="#">ListAutomatedReasoningPolicyTestResults</a>	Grants permission to list test result for an automated reasoning policy	List	<a href="#">automated-reasoning-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBlueprints</a>	Grants permission to list existing blueprints for data automation	List	<a href="#">data-automation-project</a>		
<a href="#">ListCustomModelDeployments</a>	Grants permission to get the list of custom model deployments that you have submitted	List			
<a href="#">ListCustomModels</a>	Grants permission to get a list of Bedrock custom models that you have created	List			
<a href="#">ListDataAutomationProjects</a>	Grants permission to list existing data automation projects	List	<a href="#">blueprint</a>		
<a href="#">ListDataSources</a>	Grants permission to list existing data sources in an knowledge base	List	<a href="#">knowledge-base*</a>		
<a href="#">ListEnforcedGuardrailsConfiguration</a>	Grants permission to list account-level enforced guardrail configurations	List			
<a href="#">ListEvaluationJobs</a>	Grants permission to get the list of evaluation jobs that you have submitted	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFlowAliases</a>	Grants permission to list existing aliases of a prompt flow	List	<a href="#">flow*</a>		
<a href="#">ListFlowExecutionEvents</a>	Grants permission to retrieve events for a flow execution	List	<a href="#">flow*</a> <a href="#">flow-aliases*</a> <a href="#">flow-execution*</a>		
<a href="#">ListFlowExecutions</a>	Grants permission to list executions of a flow or a flow alias	List	<a href="#">flow*</a> <a href="#">flow-aliases</a>		
<a href="#">ListFlowVersions</a>	Grants permission to list existing versions of a prompt flow	List	<a href="#">flow*</a>		
<a href="#">ListFlows</a>	Grants permission to list existing prompt flows	List			
<a href="#">ListFoundationModelAgreementOffers</a>	Grants permission to get a list of foundation model agreement offers	List			
<a href="#">ListFoundationModels</a>	Grants permission to list Bedrock foundation models that you can use	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGuardrails</a>	Grants permission to list guardrails or its versions	List	<a href="#">guardrail</a>		
<a href="#">ListImportedModels</a>	Grants permission to get list of Bedrock imported models	List			
<a href="#">ListInferenceProfiles</a>	Grants permission to list inference profiles that you can use	List			
<a href="#">ListIngestionJobs</a>	Grants permission to list ingestion jobs in a data source	List	<a href="#">knowledge-base*</a>		
<a href="#">ListInvocationSteps</a>	Grants permission to get list of invocation step from a session	List	<a href="#">session*</a>		
<a href="#">ListInvocations</a>	Grants permission to list invocations in a session	List	<a href="#">session*</a>		
<a href="#">ListKnowledgeBaseDocuments</a>	Grants permission to list documents in a knowledge base	List	<a href="#">knowledge-base*</a>		
<a href="#">ListKnowledgeBases</a>	Grants permission to list existing knowledge bases	List			
<a href="#">ListMarketplaceModelEndpoints</a>	Grants permission to list marketplace model endpoints that you can use	Read			
<a href="#">ListModelCopyJobs</a>	Grants permission to get the list of model copy jobs that you have submitted	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListModelCustomizationJobs</a>	Grants permission to get the list of model customization jobs that you have submitted	List			
<a href="#">ListModelEvaluationJobs</a>	Grants permission to get the list of model evaluation jobs that you have submitted	List			
<a href="#">ListModelImportJobs</a>	Grants permission to get list of model import jobs	List			
<a href="#">ListModelInvocationJobs</a>	Grants permission to list model invocation jobs that you created earlier	List			
<a href="#">ListPromptRouters</a>	Grants permission to list prompt routers that you can use	List			
<a href="#">ListPrompts</a>	Grants permission to list existing prompts	List	<a href="#">prompt</a>		
<a href="#">ListProvisionedModelThroughputs</a>	Grants permission to list provisioned model throughputs that you created earlier	List			
<a href="#">ListSessions</a>	Grants permission to list existing sessions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Bedrock resource	Read	<a href="#">agent*</a> <a href="#">agent-alias*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">application-inference-profile*</a>		
			<a href="#">async-invoke*</a>		
			<a href="#">automated-reasoning-policy*</a>		
			<a href="#">automated-reasoning-policy-version*</a>		
			<a href="#">blueprint*</a>		
			<a href="#">blueprint-optimization-invo-cation*</a>		
			<a href="#">custom-model*</a>		
			<a href="#">custom-model-deplo-ym-ent*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">data-automation-in-vocation-job*</a>		
			<a href="#">data-automation-project*</a>		
			<a href="#">evaluation-job*</a>		
			<a href="#">flow*</a>		
			<a href="#">flow-aliases*</a>		
			<a href="#">guardrail*</a>		
			<a href="#">imported-model*</a>		
			<a href="#">knowledge-base*</a>		
			<a href="#">model-copy-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model-cus-tomization-job*</a>		
			<a href="#">model-evaluation-job*</a>		
			<a href="#">model-import-job*</a>		
			<a href="#">model-innovation-job*</a>		
			<a href="#">prompt*</a>		
			<a href="#">prompt-router*</a>		
			<a href="#">prompt-version*</a>		
			<a href="#">provisioned-model*</a>		
			<a href="#">session*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">OptimizePrompt</a>	Grants permission to optimize a prompt with user input	Read			
<a href="#">PrepareAgent</a>	Grants permission to prepare an existing agent to receive runtime requests	Write	<a href="#">agent*</a>		
<a href="#">PrepareFlow</a>	Grants permission to apply the latest changes made to a prompt flow, so that they are reflected at runtime	Write	<a href="#">flow*</a>		
<a href="#">PutEnforcedGuardrailConfiguration</a>	Grants permission to set account-level enforced guardrail configuration	Write			
<a href="#">PutFoundationModelEntitlement</a>	Grants permission to put entitlement to access a serverless foundation model. Do not use to restrict model access	Write			
<a href="#">PutInvocationStep</a>	Grants permission to put an invocation step into an invocation in session	Write	<a href="#">session*</a>		
<a href="#">PutInvocationLoggingConfiguration</a>	Grants permission to create an existing Invocation logging configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a> [permission only]	Adds a resource policy for a Bedrock resource	Write	<a href="#">custom-model</a>		
			<a href="#">guardrail</a>		
			<a href="#">guardrail-profile</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">PutUseCaseForModelAccess</a>	Grants permission to put a use case for model access	Write			
<a href="#">RegisterMarketplaceModelEndpoint</a>	Grants permission to register a sagemaker endpoint as a marketplace model endpoint	Write	<a href="#">bedrock-marketplace-model-endpoint*</a>		
<a href="#">RenderPrompt</a> [permission only]	Grants permission to render an existing prompt or its version	Read	<a href="#">prompt*</a>		
			<a href="#">prompt-version*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Rerank</a>	Grants permission to rank documents based on user input	Write			
<a href="#">Retrieve</a>	Grants permission to retrieve ingested data from a knowledge base	Read	<a href="#">knowledge-base*</a>		
<a href="#">RetrieveAndGenerate</a>	Grants permission to send user input to perform retrieval and generation	Write			
<a href="#">StartAutomatedReasoningPolicyBuildWorkflow</a>	Grants permission to start a build workflow for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		
<a href="#">StartAutomatedReasoningPolicyTestWorkflow</a>	Grants permission to start a test workflow for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		
<a href="#">StartFlowExecution</a>	Grants permission to start an execution of a flow alias	Write	<a href="#">flow*</a> <a href="#">flow-aliases*</a>		
<a href="#">StartIngestionJob</a>	Grants permission to start an ingestion job	Write	<a href="#">knowledge-base*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopEvaluationJob</a>	Grants permission to stop a evaluation job while in progress	Write	<a href="#">evaluation-job*</a>		
<a href="#">StopFlowExecution</a>	Grants permission to stop an execution of a flow alias	Write	<a href="#">flow*</a>		
			<a href="#">flow-aliases*</a>		
			<a href="#">flow-execution*</a>		
<a href="#">StopIngestionJob</a>	Grants permission to stop an ingestion job	Write	<a href="#">knowledge-base*</a>		
<a href="#">StopModelCustomizationJob</a>	Grants permission to stop a Bedrock model customization job while in progress	Write	<a href="#">model-customization-job*</a>		
<a href="#">StopModelInvocationJob</a>	Grants permission to stop a model invocation job that you started earlier	Write	<a href="#">model-invocation-job*</a>		
<a href="#">TagResource</a>	Grants permission to Tag a Bedrock resource	Tagging	<a href="#">agent</a>		
			<a href="#">agent-alias</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">application-inference-profile</a>		
			<a href="#">async-invoke</a>		
			<a href="#">automated-reasoning-policy</a>		
			<a href="#">automated-reasoning-policy-version</a>		
			<a href="#">blueprint</a>		
			<a href="#">blueprint-optimization-invocation</a>		
			<a href="#">custom-model</a>		
			<a href="#">custom-model-deployment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">data-automation-in-vocation-job</a>		
			<a href="#">data-automation-project</a>		
			<a href="#">evaluation-job</a>		
			<a href="#">flow</a>		
			<a href="#">flow-aliases</a>		
			<a href="#">guardrail</a>		
			<a href="#">imported-model</a>		
			<a href="#">knowledge-base</a>		
			<a href="#">model-copy-job</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model-cus-tomization-job</a>		
			<a href="#">model-evaluation-job</a>		
			<a href="#">model-import-job</a>		
			<a href="#">model-innovation-job</a>		
			<a href="#">prompt</a>		
			<a href="#">prompt-router</a>		
			<a href="#">prompt-version</a>		
			<a href="#">provisioned-model</a>		
			<a href="#">session</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to Untag a Bedrock resource	Tagging	<a href="#">agent</a> <a href="#">agent-alias</a> <a href="#">application-inference-profile</a> <a href="#">async-invoke</a> <a href="#">automated-reasoning-policy</a> <a href="#">automated-reasoning-policy-version</a> <a href="#">blueprint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">blueprint</a>		
			- <a href="#">optimization-invo</a> <a href="#">cation</a>		
			<a href="#">custom-model</a>		
			<a href="#">custom-model-deplo</a> <a href="#">yment</a>		
			<a href="#">data-automation-in</a> <a href="#">vocation-job</a>		
			<a href="#">data-automation-project</a>		
			<a href="#">evaluation-job</a>		
			<a href="#">flow</a>		
			<a href="#">flow-aliases</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">guardrail</a>		
			<a href="#">imported-model</a>		
			<a href="#">knowledge-base</a>		
			<a href="#">model-copy-job</a>		
			<a href="#">model-customization-job</a>		
			<a href="#">model-evaluation-job</a>		
			<a href="#">model-import-job</a>		
			<a href="#">model-invoice-generation-job</a>		
			<a href="#">prompt</a>		
			<a href="#">prompt-router</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">prompt-version</a>		
			<a href="#">provisioned-model</a>		
			<a href="#">session</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgent</a>	Grants permission to update an existing agent	Write	<a href="#">agent*</a>		
<a href="#">UpdateAgentActionGroup</a>	Grants permission to update an existing action group	Write	<a href="#">agent*</a>		
<a href="#">UpdateAgentAlias</a>	Grants permission to update an existing alias	Write	<a href="#">agent-alias*</a>		
<a href="#">UpdateAgentCollaborator</a>	Grants permission to update an existing collaborator	Write	<a href="#">agent*</a>		
<a href="#">UpdateAgentKnowledgeBase</a>	Grants permission to update a knowledge base associated with an agent	Write	<a href="#">agent*</a>		
			<a href="#">knowledge-base*</a>		
<a href="#">UpdateAutomatedReasoningPolicy</a>	Grants permission to update an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAutomatedReasoningPolicyAnnotations</a>	Grants permission to update annotations for a build workflow for an automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		
<a href="#">UpdateAutomatedReasoningPolicyTestCase</a>	Grants permission to update a test case for automated reasoning policy	Write	<a href="#">automated-reasoning-policy*</a>		
<a href="#">UpdateBlueprint</a>	Grants permission to update a blueprint for data automation	Write	<a href="#">blueprint*</a>		
<a href="#">UpdateCustomModelDeployment</a>	Grants permission to update an existing custom model deployment with a new custom model	Write	<a href="#">custom-model*</a>		
			<a href="#">custom-model-deployment*</a>		
<a href="#">UpdateDataAutomationProject</a>	Grants permission to update a data automation project	Write	<a href="#">data-automation-project*</a>		
			<a href="#">blueprint</a>		
<a href="#">UpdateDataSource</a>	Grants permission to update a data source	Write	<a href="#">knowledge-base*</a>		
<a href="#">UpdateFlow</a>	Grants permission to update a prompt flow	Write	<a href="#">flow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFlowAlias</a>	Grants permission to update the configuration of an alias of a prompt flow	Write	<a href="#">flow-alias*</a>		
<a href="#">UpdateGuardrail</a>	Grants permission to update a guardrail	Write	<a href="#">guardrail*</a>		
			<a href="#">automated-reasoning-policy</a>		
			<a href="#">automated-reasoning-policy-version</a>		
<a href="#">UpdateKnowledgeBase</a>	Grants permission to update a knowledge base	Write	<a href="#">knowledge-base*</a>		
<a href="#">UpdateMarketplaceModelEndpoint</a>	Grants permission to update a marketplace model endpoint	Write	<a href="#">bedrock-marketplace-model-endpoint*</a>		
<a href="#">UpdatePrompt</a>	Grants permission to update a prompt	Write	<a href="#">prompt*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProvisionedModelThroughput</a>	Grants permission to update a provisioned model throughput that you created earlier	Write	<a href="#">custom-model*</a> <a href="#">foundation-model*</a> <a href="#">provisioned-model*</a>		
<a href="#">UpdateSession</a>	Grants permission to update an existing session	Write	<a href="#">session*</a>		
<a href="#">ValidateFlowDefinition</a>	Grants permission to validate prompt flow definitions	Read			

## Resource types defined by Amazon Bedrock

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">foundation-model</a>	arn:\${Partition}:bedrock:\${Region}::foundation-model/\${ResourceId}	
<a href="#">system-tool</a>	arn:\${Partition}:bedrock::\${Account}:system-tool/\${ResourceId}	



Resource types	ARN	Condition keys
<a href="#">async-invoke</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:async-invoke/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">inference-profile</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:inference-profile/\${ResourceId}	
<a href="#">default-prompt-router</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:default-prompt-router/\${ResourceId}	
<a href="#">prompt-router</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:prompt-router/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application-inference-profile</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:application-inference-profile/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custom-model</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:custom-model/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">provisioned-model</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:provisioned-model/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model-customization-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:model-customization-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">agent</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:agent/\${AgentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">agent-alias</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:agent-alias/\${AgentId}/\${AgentAliasId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">knowledge-base</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:knowledge-base/\${KnowledgeBaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model-evaluation-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:model-evaluation-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">evaluation-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:evaluation-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model-invocation-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:model-invocation-job/\${JobIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">guardrail</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:guardrail/\${GuardrailId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">guardrail-profile</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:guardrail-profile/\${ResourceId}	
<a href="#">automated-reasoning-policy</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:automated-reasoning-policy/\${AutomatedReasoningPolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">automated-reasoning-policy-version</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:automated-reasoning-policy/\${AutomatedReasoningPolicyId}:\${AutomatedReasoningPolicyVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">flow</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:flow/\${FlowId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">flow-alias</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:flow/\${FlowId}/alias/\${FlowAliasId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">flow-execution</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:flow/\${FlowId}/alias/\${FlowAliasId}/execution/\${FlowExecutionId}	
<a href="#">model-copy-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:model-copy-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">prompt</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:prompt/\${PromptId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">prompt-version</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:prompt/\${PromptId}:\${PromptVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model-import-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:model-import-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">imported-model</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:imported-model/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">bedrock-marketplace-model-endpoint</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:marketplace/model-endpoint/all-access	

Resource types	ARN	Condition keys
<a href="#">data-automation-project</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:data-automation-project/\${ProjectId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">blueprint</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:blueprint/\${BlueprintId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">blueprint-optimization-invocation</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:blueprint-optimization-invocation/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">data-automation-invocation-job</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:data-automation-invocation/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">data-automation-profile</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:data-automation-profile/\${ProfileId}	
<a href="#">session</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:session/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custom-model-deployment</a>	arn:\${Partition}:bedrock:\${Region}:\${Account}:custom-model-deployment/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Bedrock

Amazon Bedrock defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by creating requests based on the allowed set of values for each of the mandatory tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by having actions based on the tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by creating requests based on the presence of mandatory tags in the request	ArrayOfString
<a href="#">bedrock:BearerTokenType</a>	Filters access by the Short-term or Long-term bearer tokens	String
<a href="#">bedrock:GuardrailIdentifier</a>	Filters access by the GuardrailIdentifier containing the GuardrailArn or the GuardrailArn:NumericVersion	ARN
<a href="#">bedrock:InferenceProfileArn</a>	Filters access by the specified inference profile	ARN
<a href="#">bedrock:InlineAgentName</a>	Filters access by the Inline Agent Names, this will be used in InvokeInlineAgent API names	String
<a href="#">bedrock:PromptRouterArn</a>	Filters access by the specified prompt router	ARN
<a href="#">bedrock:ServiceTier</a>	Filters access by the specified ServiceTier	String
<a href="#">bedrock:ThirdPartyKnowledgeBaseCredentialsSecretArn</a>	Filters access by the secretArn containing the credentials of the third party platform	ARN

## Actions, resources, and condition keys for Amazon Bedrock Agentcore

Amazon Bedrock Agentcore (service prefix: `bedrock-agentcore`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Bedrock Agentcore](#)
- [Resource types defined by Amazon Bedrock Agentcore](#)
- [Condition keys for Amazon Bedrock Agentcore](#)

## Actions defined by Amazon Bedrock Agentcore

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended telemetry for a resource	Permissions management	<a href="#">memory*</a>		
<a href="#">AuthorizeAction</a>	Grants permission to evaluate Cedar policies for authorization requests	Permissions	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]		management	<a href="#">policy-engine*</a>		
<a href="#">BatchCreateMemoryRecords</a>	Grants permission to create one or more memory records	Write	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:namespace</a>	
<a href="#">BatchDeleteMemoryRecords</a>	Grants permission to delete one or more memory records	Write	<a href="#">memory*</a>		
<a href="#">BatchUpdateMemoryRecords</a>	Grants permission to update one or more memory records	Write	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:namespace</a>	
<a href="#">CompleteResourceTokenAuth</a>	Grants permission to retrieve access token with OAuth2 for 3LO flow to access external resource	Read	<a href="#">oauth2credentialprovider*</a>		
			<a href="#">token-vault*</a>		
			<a href="#">workload-identity*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workload-identity-directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">bedrock-agentcore:InboundJwtClaim/iss</a>	
				<a href="#">bedrock-agentcore:InboundJwtClaim/sub</a>	
				<a href="#">bedrock-agentcore:InboundJwtClaim/aud</a>	
				<a href="#">bedrock-agentcore:InboundJwtClaim/scopes</a>	
				<a href="#">bedrock-agentcore:InboundJwt</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tClaim/client_id</a>  <a href="#">bedrock-agentcore:userid</a>	
<a href="#">ConnectBrowserAutomationStream</a>	Grants permission to connect to a browser automation stream	Read			
<a href="#">ConnectBrowserLiveViewStream</a>	Grants permission to connect to a browser live view stream	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAgentRuntime</a>	Grants permission to create a new agent runtime	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">bedrock-agentcore:subnets</a>  <a href="#">bedrock-agentcore:securityGroups</a>	iam:PassRole
<a href="#">CreateAgentRuntimeEndpoint</a>	Grants permission to create a new agent runtime endpoint	Write	<a href="#">runtime*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateApiKeyCredentialProvider</a>	Grants permission to create a new API Key Credential Provider	Write	<a href="#">apikeycredentialprovider*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">token-vault*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBrowser</a>	Grants permission to create a new custom browser	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">bedrock-agentcore:subnets</a> <a href="#">bedrock-agentcore:securityGroups</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBrowserProfile</a>	Grants permission to create a new browser profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCodeInterpreter</a>	Grants permission to create a new custom code interpreter	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">bedrock-agentcore:subnets</a>  <a href="#">bedrock-agentcore:securityGroups</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEvaluuator</a>	Grants permission to create a new evaluator	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateEvent</a>	Grants permission to create an Event	Write	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:sessionId</a>  <a href="#">bedrock-agentcore:actorId</a>	
<a href="#">CreateGateway</a>	Grants permission to create a new gateway	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGatewayTarget</a>	Grants permission to create a new target in an existing gateway	Write	<a href="#">gateway*</a>		
<a href="#">CreateMemory</a>	Grants permission to create a Memory resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">bedrock-agentcore:KmsKeyArr</a>	iam:PassRole
<a href="#">CreateOAuth2CredentialProvider</a>	Grants permission to create a new Credential Provider to access external resources with OAuth2 protocol	Write	<a href="#">oauth2credentialprovider*</a> <a href="#">token-vault*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOnlineEvaluationConfiguration</a>	Grants permission to create a new online evaluation configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">CreatePolicy</a>	Grants permission to create a new policy within a policy engine	Write	<a href="#">policy-engine*</a>		
<a href="#">CreatePolicyEngine</a>	Grants permission to create a new policy engine	Write			
<a href="#">CreateWorkloadIdentity</a>	Grants permission to create a new Workload Identity	Write	<a href="#">workload-identity*</a>  <a href="#">workload-identity-directory*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAgentRuntime</a>	Grants permission to delete an agent runtime	Write	<a href="#">runtime*</a>		
<a href="#">DeleteAgentRuntimeEndpoint</a>	Grants permission to delete an agent runtime endpoint	Write	<a href="#">runtime-endpoint*</a>		
<a href="#">DeleteApiKeyCredentialProvider</a>	Grants permission to delete a registered API Key Credential Provider	Write	<a href="#">apikeycredentialprovider*</a> <a href="#">token-vault*</a>		
<a href="#">DeleteBrowser</a>	Grants permission to delete a custom browser	Write	<a href="#">browser-custom*</a>		
<a href="#">DeleteBrowserProfile</a>	Grants permission to delete a browser profile	Write	<a href="#">browser-profile*</a>		
<a href="#">DeleteCodeInterpreter</a>	Grants permission to delete a custom code interpreter	Write	<a href="#">code-interpreter-custom*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEvaluator</a>	Grants permission to delete an evaluator	Write	<a href="#">evaluator*</a>		
<a href="#">DeleteEvent</a>	Grants permission to delete an Event	Write	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:sessionId</a> <a href="#">bedrock-agentcore:actorId</a>	
<a href="#">DeleteGateway</a>	Grants permission to delete an existing gateway	Write	<a href="#">gateway*</a>		
<a href="#">DeleteGatewayTarget</a>	Grants permission to delete an existing gateway target	Write	<a href="#">gateway*</a>		
<a href="#">DeleteMemory</a>	Grants permission to delete a Memory resource	Write	<a href="#">memory*</a>		
<a href="#">DeleteMemoryRecord</a>	Grants permission to delete a Memory Record	Write	<a href="#">memory*</a>		
<a href="#">DeleteOAuth2CredentialProvider</a>	Grants permission to delete a registered OAuth2 Credential Provider	Write	<a href="#">oauth2credentialprovider*</a> <a href="#">token-vault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOnlineEvaluationConfig</a>	Grants permission to delete an online evaluation configuration	Write	<a href="#">online-evaluation-config*</a>		
<a href="#">DeletePolicy</a>	Grants permission to delete a policy	Write	<a href="#">policy*</a>		
			<a href="#">policy-engine*</a>		
<a href="#">DeletePolicyEngine</a>	Grants permission to delete a policy engine	Write	<a href="#">policy-engine*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the resource-based policy for a Bedrock resource	Write	<a href="#">gateway</a>		
			<a href="#">runtime</a>		
			<a href="#">runtime-endpoint</a>		
<a href="#">DeleteWorkloadIdentity</a>	Grants permission to delete a registered Workload Identity	Write	<a href="#">workload-identity*</a>		
			<a href="#">workload-identity-directory*</a>		
			-		
<a href="#">Evaluate</a>	Grants permission to run an evaluation using an evaluator	Write	<a href="#">evaluator*</a>		
			-		
<a href="#">GetAgentCard</a>	Grants permission to retrieve an agent card for A2A	Read	<a href="#">runtime*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">runtime-endpoint*</a>		
<a href="#">GetAgentRuntime</a>	Grants permission to get details of an agent runtime	Read	<a href="#">runtime*</a>		
<a href="#">GetAgentRuntimeEndpoint</a>	Grants permission to get details of an agent runtime endpoint	Read	<a href="#">runtime-endpoint*</a>		
<a href="#">GetApiKeyCredentialProvider</a>	Grants permission to fetch a registered API Key Credential Provider by its name	Read	<a href="#">apikeycredentialprovider*</a>		
			<a href="#">token-vault*</a>		
<a href="#">GetBrowser</a>	Grants permission to get details of a browser	Read	<a href="#">browser-custom*</a>		
<a href="#">GetBrowserProfile</a>	Grants permission to get details of a browser profile	Read	<a href="#">browser-profile*</a>		
<a href="#">GetBrowserSession</a>	Grants permission to get details of a browser session	Read	<a href="#">browser*</a>		
			<a href="#">browser-custom*</a>		
<a href="#">GetCodeInterpreter</a>	Grants permission to get details of a code interpreter	Read	<a href="#">code-interpreter-custom*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCodeInterpreterSession</a>	Grants permission to get details of a code interpreter session	Read	<a href="#">code-intepreter*</a> <a href="#">code-intepreter-custom*</a>		
<a href="#">GetEvaluator</a>	Grants permission to get details of an evaluator	Read	<a href="#">evaluator*</a>		
<a href="#">GetEvent</a>	Grants permission to fetch an Event	Read	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:sessionId</a> <a href="#">bedrock-agentcore:actorId</a>	
<a href="#">GetGateway</a>	Grants permission to retrieve an existing gateway	Read	<a href="#">gateway*</a>		
<a href="#">GetGatewayTarget</a>	Grants permission to retrieve an existing gateway target	Read	<a href="#">gateway*</a>		
<a href="#">GetMemory</a>	Grants permission to fetch details for a Memory resource	Read	<a href="#">memory*</a>		
<a href="#">GetMemoryRecord</a>	Grants permission to fetch a Memory Record	Read	<a href="#">memory*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOAuth2CredentialProvider</a>	Grants permission to fetch a registered OAuth2 Credential Provider by its name	Read	<a href="#">oauth2credentialprovider*</a>  <a href="#">token-vault*</a>		
<a href="#">GetOnlineEvaluationConfig</a>	Grants permission to get details of an online evaluation configuration	Read	<a href="#">online-evaluation-config*</a>		
<a href="#">GetPolicy</a>	Grants permission to retrieve a policy	Read	<a href="#">policy*</a>  <a href="#">policy-engine*</a>		
<a href="#">GetPolicyEngine</a>	Grants permission to retrieve a policy engine	Read	<a href="#">policy-engine*</a>		
<a href="#">GetPolicyGeneration</a>	Grants permission to retrieve status and results of a policy generation request	Read	<a href="#">policy-engine*</a>  <a href="#">policy-generation*</a>		
<a href="#">GetResourceApiKey</a>	Grants permission to retrieve an API Key associated with an Api Key Credential Provider	Read	<a href="#">apikeycredentialprovider*</a>  <a href="#">token-vault*</a>  <a href="#">workload-identity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workload-identity-directory*</a>		
<a href="#">GetResourceOauth2Token</a>	Grants permission to retrieve access token with OAuth2 2LO or 3LO flow to access external resource	Read	<a href="#">oauth2credentialprovider*</a>		
			<a href="#">token-vault*</a>		
			<a href="#">workload-identity*</a>		
			<a href="#">workload-identity-directory*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve the resource-based policy for a Bedrock resource	Read	<a href="#">gateway</a>		
			<a href="#">runtime</a>		
			<a href="#">runtime-endpoint</a>		
<a href="#">GetTokenVault</a>	Grants permission to fetch the current configuration of the TokenVault, including encryption settings	Read	<a href="#">token-vault*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetWorkloadAccessToken</a>	Grants permission to retrieve an Workload access token for agentic workloads not acting on behalf of a user	Write	<a href="#">workload-identity*</a> <a href="#">workload-identity-directory*</a> -		
<a href="#">GetWorkloadAccessTokenForJWT</a>	Grants permission to retrieve an Workload access token for agentic workloads acting on behalf of user with JWT token	Write	<a href="#">workload-identity*</a> <a href="#">workload-identity-directory*</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">bedrock-agentcore:InboundJwtClaim/iss</a> <a href="#">bedrock-agentcore:InboundJwtClaim/sub</a> <a href="#">bedrock-agentcore:InboundJwtClaim/aud</a> <a href="#">bedrock-agentcore:InboundJwtClaim/scope</a> <a href="#">bedrock-agentcore:InboundJwt</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tClaim/client_id</a>	
<a href="#">GetWorkloadAccessTokenForUserId</a>	Grants permission to retrieve an Workload access token for agentic workloads acting on behalf of user with User Id	Write	<a href="#">workload-identity*</a>		
			<a href="#">workload-identity-directory*</a>		
				<a href="#">bedrock-agentcore:userid</a>	
<a href="#">GetWorkloadIdentity</a>	Grants permission to fetch details for a specific Workload identity, including its name and allowed OAuth2 return URLs	Read	<a href="#">workload-identity*</a>		
			<a href="#">workload-identity-directory*</a>		
<a href="#">InvokeAgentRuntime</a>	Grants permission to invoke an agent runtime endpoint	Write	<a href="#">runtime*</a>		
			<a href="#">runtime-endpoint*</a>		
<a href="#">InvokeAgentRuntimeCommand</a>	Grants permission to invoke commands on an agent runtime endpoint	Write	<a href="#">runtime*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">runtime-endpoint*</a>		
<a href="#">InvokeAgentRuntimeForUser</a>	Grants permission to invoke an agent runtime endpoint with X-Amzn-Bedrock-AgentCore-Runtime-User-Id header	Write	<a href="#">runtime*</a>		
			<a href="#">runtime-endpoint*</a>		
<a href="#">InvokeAgentRuntimeWithWebSocketStream</a>	Grants permission to invoke an agent runtime endpoint with WebSocket stream	Write	<a href="#">runtime*</a>		
			<a href="#">runtime-endpoint*</a>		
<a href="#">InvokeAgentRuntimeWithWebSocketStreamForUser</a>	Grants permission to invoke an agent runtime endpoint with WebSocket stream and with X-Amzn-Bedrock-AgentCore-Runtime-User-Id header	Write	<a href="#">runtime*</a>		
			<a href="#">runtime-endpoint*</a>		
<a href="#">InvokeCodeInterpreter</a>	Grants permission to invoke a code interpreter session	Write	<a href="#">code-interpreter*</a>		
			<a href="#">code-interpreter-custom*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InvokeGateway</a> [permission only]	Grants permission to invoke a gateway	Permissions management	<a href="#">gateway*</a>		
<a href="#">ListActors</a>	Grants permission to list Actors	List	<a href="#">memory*</a>		
<a href="#">ListAgentRuntimeEndpoints</a>	Grants permission to list agent runtime endpoints	List			
<a href="#">ListAgentRuntimeVersions</a>	Grants permission to list agent runtime versions	List			
<a href="#">ListAgentRuntimes</a>	Grants permission to list agent runtimes	List			
<a href="#">ListApiKeyCredentialProviders</a>	Grants permission to list all API Key Credential Providers in the Token Vault	Read	<a href="#">apikeycredentialprovider*</a>  <a href="#">token-vault*</a>		
<a href="#">ListBrowserProfiles</a>	Grants permission to list browser profiles	List			
<a href="#">ListBrowserSessions</a>	Grants permission to list browser sessions	List			
<a href="#">ListBrowsers</a>	Grants permission to list browsers	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCodeInterpreterSessions</a>	Grants permission to list code interpreter sessions	List	<a href="#">code-interpreter*</a> <a href="#">code-interpreter-custom*</a>		
<a href="#">ListCodeInterpreters</a>	Grants permission to list code interpreters	List			
<a href="#">ListEvaluators</a>	Grants permission to list evaluators	List			
<a href="#">ListEvents</a>	Grants permission to list events	List	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:sessionId</a> <a href="#">bedrock-agentcore:actorId</a>	
<a href="#">ListGatewayTargets</a>	Grants permission to list existing gateway targets	List	<a href="#">gateway*</a>		
<a href="#">ListGateways</a>	Grants permission to list existing gateways	List			
<a href="#">ListMemories</a>	Grants permission to list memory resources	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMemoryExtractionJobs</a>	Grants permission to list extraction jobs for this memory	List	<a href="#">memory*</a>		
<a href="#">ListMemoryRecords</a>	Grants permission to list memory records	List	<a href="#">memory*</a>	<a href="#">bedrock-agentcore:namespace</a> <a href="#">bedrock-agentcore:strategy</a>	
<a href="#">ListOAuth2CredentialProviders</a>	Grants permission to list all OAuth2 Credential Providers in the Token Vault	Read	<a href="#">oauth2credentialprovider*</a> <a href="#">token-vault*</a>		
<a href="#">ListOnlineEvaluationConfigs</a>	Grants permission to list online evaluation configurations	List			
<a href="#">ListPolicies</a>	Grants permission to list policies within a policy engine	List	<a href="#">policy-engine*</a>		
<a href="#">ListPolicyEngines</a>	Grants permission to list policy engines	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPolicyGenerationAssets</a>	Grants permission to list generated policy assets from a generation request	List	<a href="#">policy-engine*</a>		
			<a href="#">policy-generation*</a>		
<a href="#">ListPolicyGenerations</a>	Grants permission to list policy generation requests	List	<a href="#">policy-engine*</a>		
<a href="#">ListSessions</a>	Grants permission to list sessions	List	<a href="#">memory*</a>		
				<a href="#">bedrock-agentcore:actorId</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Bedrock-AgentCore resource	List	<a href="#">apikeycredentialprovider</a>		
			<a href="#">browser-custom</a>		
			<a href="#">browser-profile</a>		
			<a href="#">code-interpretor-custom</a>		
			<a href="#">evaluator</a>		
			<a href="#">gateway</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">memory</a>		
			<a href="#">oauth2credentialprovider</a>		
			<a href="#">online-evaluation-config</a>		
			<a href="#">runtime</a>		
			<a href="#">runtime-endpoint</a>		
			<a href="#">token-vault</a>		
			<a href="#">workload-identity</a>		
			<a href="#">workload-identity-directory</a>		
<a href="#">ListWorkloadIdentities</a>	Grants permission to list all Workload Identities in the caller's AWS account	Read	<a href="#">workload-identity*</a>		
			<a href="#">workload-identity-directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ManageAdminPolicy</a> [permission only]	Grants permission to create or modify wildcard policies that apply to gateway resources	Permissions management			
<a href="#">ManageResourceScopedPolicy</a> [permission only]	Grants permission to create or modify policies that apply to specific gateway resources	Permissions management	<a href="#">gateway*</a>		
<a href="#">PartiallyAuthorizeActions</a> [permission only]	Grants permission to perform partial evaluation of Cedar policies to authorize a caller to list tools they are allowed to call	Permissions management	<a href="#">gateway*</a> <a href="#">policy-engine*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to create or update the resource-based policy for a Bedrock resource	Write	<a href="#">gateway</a> <a href="#">runtime</a> <a href="#">runtime-endpoint</a>		
<a href="#">RetrieveMemoryRecords</a>	Grants permission to retrieve memory records through semantic query	List	<a href="#">memory*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">bedrock-agentcore:namespace</a>  <a href="#">bedrock-agentcore:strategy</a>	
<a href="#">SaveBrowserSessionProfile</a>	Grants permission to save a browser session profile	Write	<a href="#">browser*</a>  <a href="#">browser-custom*</a>  <a href="#">browser-profile*</a>		
<a href="#">SetTokenVaultCMK</a>	Grants permission to associate a Customer Managed Key (CMK) or a Service Managed Key with a specific TokenVault	Read	<a href="#">token-vault*</a>		
<a href="#">StartBrowserSession</a>	Grants permission to start a new browser session	Write	<a href="#">browser*</a>  <a href="#">browser-custom*</a>  <a href="#">browser-profile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartCodeInterpreterSession</a>	Grants permission to start a new code interpreter session	Write	<a href="#">code-<u>interpreter*</u></a>		
			<a href="#">code-<u>interpreter-c</u> <u>ustom*</u></a>		
<a href="#">StartMemoryExtractionJob</a>	Grants permission to start memory extraction job	Write	<a href="#">memory*</a>		
				<a href="#">bedrock-<u>a</u> <u>gentcore:</u> <u>strategyI</u> <u>d</u></a>	
				<a href="#">bedrock-<u>a</u> <u>gentcore:</u> <u>sessionId</u></a>	
			<a href="#">bedrock-<u>a</u> <u>gentcore:</u> <u>actorId</u></a>		
<a href="#">StartPolicyGeneration</a>	Grants permission to start an AI-powered policy generation request	Write	<a href="#">policy-<u>engine*</u></a>		
<a href="#">StopBrowserSession</a>	Grants permission to stop a browser session	Write	<a href="#">browser*</a>		
			<a href="#">browser-<u>custom*</u></a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopCodeInterpreterSession</a>	Grants permission to stop a code interpreter session	Write	<a href="#">code-inte rpreter*</a>		
			<a href="#">code-inte rpreter-c ustom*</a>		
<a href="#">StopRuntimeSession</a>	Grants permission to stop a runtime session	Write	<a href="#">runtime*</a>		
			<a href="#">runtime- e ndpoint*</a>		
<a href="#">SynchronizeGatewayTargets</a> [permission only]	Grants permission to enable search on gateways	Permissions management	<a href="#">gateway*</a>		
<a href="#">TagResource</a>	Grants permission to Tag a Bedrock-AgentCore resource	Tagging	<a href="#">apikeycre dentialpr ovider</a>		
			<a href="#">browser- custom</a>		
			<a href="#">browser- profile</a>		
			<a href="#">code-inte rpreter-c ustom</a>		
			<a href="#">evaluator</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">gateway</a>		
			<a href="#">memory</a>		
			<a href="#">oauth2credentialprovider</a>		
			<a href="#">online-evaluation-config</a>		
			<a href="#">runtime</a>		
			<a href="#">runtime-endpoint</a>		
			<a href="#">token-vault</a>		
			<a href="#">workload-identity</a>		
			<a href="#">workload-identity-directory</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to Untag a Bedrock-AgentCore resource	Tagging	<a href="#">apikeycredentialprovider</a>		
			<a href="#">browser-custom</a>		
			<a href="#">browser-profile</a>		
			<a href="#">code-interpret-custom</a>		
			<a href="#">evaluator</a>		
			<a href="#">gateway</a>		
			<a href="#">memory</a>		
			<a href="#">oauth2credentialprovider</a>		
			<a href="#">online-evaluation-config</a>		
			<a href="#">runtime</a>		
			<a href="#">runtime-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">token-vault</a>		
			<a href="#">workload-identity</a>		
			<a href="#">workload-identity-directory</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgentRuntime</a>	Grants permission to update an agent runtime	Write	<a href="#">runtime*</a>		iam:PassRole
				<a href="#">bedrock-agentcore:subnets</a>	
				<a href="#">bedrock-agentcore:securityGroups</a>	
<a href="#">UpdateAgentRuntimeEndpoint</a>	Grants permission to update an agent runtime endpoint	Write	<a href="#">runtime*</a>		
			<a href="#">runtime-endpoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApiKeyCredentialProvider</a>	Grants permission to update an existing API Key Credential Provider	Write	<a href="#">apikeycredentialprovider*</a> <a href="#">token-vault*</a>		
<a href="#">UpdateBrowserStream</a>	Grants permission to update the status of browser session stream	Write	<a href="#">browser*</a> <a href="#">browser-custom*</a>		
<a href="#">UpdateEvaluator</a>	Grants permission to update an evaluator	Write	<a href="#">evaluator*</a>		
<a href="#">UpdateGateway</a>	Grants permission to update an existing gateway	Write	<a href="#">gateway*</a>		iam:PassRole
<a href="#">UpdateGatewayTarget</a>	Grants permission to update an existing gateway target	Write	<a href="#">gateway*</a>		
<a href="#">UpdateMemory</a>	Grants permission to update a Memory resource	Write	<a href="#">memory*</a>		iam:PassRole
<a href="#">UpdateOAuth2CredentialProvider</a>	Grants permission to update an existing OAuth2 Credential Provider	Write	<a href="#">oauth2credentialprovider*</a> <a href="#">token-vault*</a>		
<a href="#">UpdateOnlineEvaluationConfig</a>	Grants permission to update an online evaluation configuration	Write	<a href="#">online-evaluation-config*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePolicy</a>	Grants permission to update an existing policy	Write	<a href="#">policy*</a>		
			<a href="#">policy-engine*</a>		
<a href="#">UpdatePolicyEngine</a>	Grants permission to update a policy engine	Write	<a href="#">policy-engine*</a>		
<a href="#">UpdateWorkloadIdentity</a>	Grants permission to update the metadata of an existing Workload Identity	Write	<a href="#">workload-identity*</a>		
			<a href="#">workload-identity-directory*</a>		

## Resource types defined by Amazon Bedrock Agentcore

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">evaluator</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:evaluator/\${EvaluatorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">online-evaluation-config</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:online-evaluation-config/\${OnlineEvaluationConfigId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">memory</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:memory/\${MemoryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">gateway</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:gateway/\${GatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workload-identity</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:workload-identity-directory/\${DirectoryId}/workload-identity/\${WorkloadIdentityName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">oauth2credentialprovider</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:token-vault/\${TokenVaultId}/oauth2credentialprovider/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">apikeycredentialprovider</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:token-vault/\${TokenVaultId}/apikeycredentialprovider/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">runtime</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:runtime/\${RuntimeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">runtime-endpoint</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:runtime/\${RuntimeId}/runtime-endpoint/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">code-interpret-custom</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:code-interpret-custom/\${CodeInterpreterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">code-interpret</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:aws:code-interpret/\${CodeInterpreterId}	
<a href="#">browser-custom</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:browser-custom/\${BrowserId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">browser</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:aws:browser/\${BrowserId}	
<a href="#">browser-profile</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:browser-profile/\${BrowserProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workload-identity-directory</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:workload-identity-directory/\${DirectoryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">token-vault</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:token-vault/\${TokenVaultId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">policy-engine</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:policy-engine/\${PolicyEngineId}	
<a href="#">policy</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:policy-engine/\${PolicyEngineId}/policy/\${PolicyId}	

Resource types	ARN	Condition keys
<a href="#">policy-generation</a>	arn:\${Partition}:bedrock-agentcore:\${Region}:\${Account}:policy-engine/\${PolicyEngineId}/policy-generation/\${PolicyGenerationId}	

## Condition keys for Amazon Bedrock Agentcore

Amazon Bedrock Agentcore defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by creating requests based on the allowed set of values for each of the mandatory tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by having actions based on the tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by creating requests based on the presence of mandatory tags in the request	ArrayOfString
<a href="#">bedrock-agentcore:GatewayAuthorizerType</a>	Filters access by the <code>authorizerType</code> attribute on a Gateway	String
<a href="#">bedrock-agentcore:</a>	Filters access by the audience claim ( <code>aud</code> ) in the JWT passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">InboundJwtClaim/aud</a>		
<a href="#">bedrock-agentcore:InboundJwtClaim/client_id</a>	Filters access by the client_id claim in the JWT passed in the request	String
<a href="#">bedrock-agentcore:InboundJwtClaim/iss</a>	Filters access by the issuer (iss) claim present in the JWT passed in the request	String
<a href="#">bedrock-agentcore:InboundJwtClaim/scope</a>	Filters access by the scope claim in the JWT passed in the request	ArrayOfString
<a href="#">bedrock-agentcore:InboundJwtClaim/sub</a>	Filters access by the subject claim (sub) in the JWT passed in the request	String
<a href="#">bedrock-agentcore:KmsKeyArn</a>	Filters access by KMS Key arn provided	String
<a href="#">bedrock-agentcore:actorId</a>	Filters access by Actor Id	String
<a href="#">bedrock-agentcore:namespace</a>	Filters access by namespace	String
<a href="#">bedrock-agentcore:securityGroups</a>	Filters access by the ID of security groups configured for the AgentCore runtime	ArrayOfString

Condition keys	Description	Type
<a href="#">bedrock-agentcore:sessionId</a>	Filters access by Session Id	String
<a href="#">bedrock-agentcore:strategyId</a>	Filters access by Memory Strategy Id	String
<a href="#">bedrock-agentcore:subnets</a>	Filters access by the ID of subnets configured for the AgentCore runtime	ArrayOfString
<a href="#">bedrock-agentcore:userid</a>	Filters access by the static user ID value passed in the request	String

## Actions, resources, and condition keys for Amazon Bedrock Powered by AWS Mantle

Amazon Bedrock Powered by AWS Mantle (service prefix: `bedrock-mantle`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Bedrock Powered by AWS Mantle](#)
- [Resource types defined by Amazon Bedrock Powered by AWS Mantle](#)
- [Condition keys for Amazon Bedrock Powered by AWS Mantle](#)

## Actions defined by Amazon Bedrock Powered by AWS Mantle

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the



Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ArchiveProject</a>	Grants permission to archive a specific project	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CallWithBearerToken</a> [permission only]	Grants permission to make API calls using bearer token authentication	List		<a href="#">bedrock-mantle:BearerTokenType</a>	
<a href="#">CancelFineTuningJob</a>	Grants permission to cancel an in-progress fine tuning job	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">bedrock-mantle:FineTuningJob</a>	
<a href="#">CancelInference</a>	Grants permission to cancel an in-progress inference request	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFile</a>	Grants permission to create a file in a project	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateFineTuningJob</a>	Grants permission to create a fine tuning job	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">bedrock-mantle:Model</a>  <a href="#">bedrock-mantle:Files</a>	
<a href="#">CreateInference</a>	Grants permission to create a chat completion inference request	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">bedrock-mantle:ServiceTier</a>  <a href="#">bedrock-mantle:Model</a>	
<a href="#">CreateProject</a>	Grants permission to create a project	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteFile</a>	Grants permission to delete a specific file	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">bedrock-mantle:Files</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInference</a>	Grants permission to delete a specific inference request	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetFile</a>	Grants permission to retrieve information about a specific file	Read	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">bedrock-mantle:Files</a>	
<a href="#">GetFineTuningJob</a>	Grants permission to retrieve details of a specific fine tuning job	Read	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">bedrock-mantle:FineTuningJob</a>	
<a href="#">GetInference</a>	Grants permission to retrieve details of a specific inference request	Read	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetModel</a>	Grants permission to retrieve information about a specific model	Read	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetProject</a>	Grants permission to retrieve details of a specific project	Read	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListFiles</a>	Grants permission to list all available files in a project	List	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListFineTuningJobs</a>	Grants permission to list all available fine tuning jobs in a project	List	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListModel</a>	Grants permission to list all available models in a project	List	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListProjects</a>	Grants permission to list projects	List	<a href="#">project*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">project</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">project</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">project</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateProject</a>	Grants permission to update a specific project	Write	<a href="#">project*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Bedrock Powered by AWS Mantle

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">project</a>	arn:\${Partition}:bedrock-mantle:\${Region}:\${Account}:project/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Bedrock Powered by AWS Mantle

Amazon Bedrock Powered by AWS Mantle defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">bedrock-mantle:BearerTokenType</a>	Filters access by the Short-term or Long-term bearer tokens	String
<a href="#">bedrock-mantle:Files</a>	Filters access by the specified file identifiers	ArrayOfString

Condition keys	Description	Type
<a href="#">bedrock-mantle:FineTuningJob</a>	Filters access by the specified fine-tuning job identifier	String
<a href="#">bedrock-mantle:Model</a>	Filters access by the specified Model	String
<a href="#">bedrock-mantle:ServiceTier</a>	Filters access by the specified ServiceTier	String

## Actions, resources, and condition keys for AWS Billing

AWS Billing (service prefix: `billing`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing](#)
- [Resource types defined by AWS Billing](#)
- [Condition keys for AWS Billing](#)

## Actions defined by AWS Billing

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateSourceViews</a>	Grants permission to associate source views to a billing view	Write	<a href="#">billingview*</a>		billing:UseSourceView  iam:CreateServiceLinkedRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateBillingView</a>	Grants permission to create a billing view	Write	<a href="#">billingview*</a>		billing:UseSourceView  iam:CreateServiceLinkedRole
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteBillingView</a>	Grants permission to delete a billing view	Write	<a href="#">billingview*</a>		
				<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete a billing view resource policy	Permissions management	<a href="#">billingview*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateSourceViews</a>	Grants permission to disassociate source views from a billing view	Write	<a href="#">billingview*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetBillingData</a> [permission only]	Grants permission to perform queries on billing information	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetBillingDetails</a> [permission only]	Grants permission to view detailed line item billing information	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBillingNotifications</a> [permission only]	Grants permission to view notifications sent by AWS related to your accounts billing information	Read			
<a href="#">GetBillingPreferences</a> [permission only]	Grants permission to view billing preferences such as reserved instance, savings plans and credits sharing	Read			
<a href="#">GetBillingView</a>	Grants permission to get the metadata for a specified billing view	Read	<a href="#">billingview*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetBillingViewData</a> [permission only]	Grants permission to get cost and usage data for a specified billing view	Read	<a href="#">billingview*</a>		
<a href="#">GetContractInformation</a> [permission only]	Grants permission to view the account's contract information including the contract number, end-user organization names, PO numbers and if the account is used to service public-sector customers	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCredits</a> [permission only]	Grants permission to view credits that have been redeemed	Read			
<a href="#">GetIAMAccessPreference</a> [permission only]	Grants permission to retrieve the state of the Allow IAM Access billing preference	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy specified billing view	Permissions management	<a href="#">billingview*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSellerOfRecord</a> [permission only]	Grants permission to retrieve the account's default Seller of Record	Read			
<a href="#">ListBillingViews</a>	Grants permission to get a list of all your available billing views	Read			
<a href="#">ListSourceViewsForBillingView</a>	Grants permission to get the list of source views for a specified billing view	List	<a href="#">billingview*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a>	Grants permission to get the list of tags for a specified billing view	Read	<a href="#">billingview*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutContractInformation</a> [permission only]	Grants permission to set the account's contract information on end-user organization names and if the account is used to service public-sector customers	Write			
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to put a billing view resource policy	Permissions management	<a href="#">billingview*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RedeemCredits</a> [permission only]	Grants permission to redeem an AWS credit	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add tags to a specified billing view	Tagging	<a href="#">billingview*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a specified billing view	Tagging	<a href="#">billingview*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateBillingPreferences</a> [permission only]	Grants permission to update billing preferences such as reserved instance, savings plans and credits sharing	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBillingView</a>	Grants permission to update a billing view	Write	<a href="#">billingview*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateIAMAccessPreference</a> [permission only]	Grants permission to update the Allow IAM Access billing preference	Write			
<a href="#">UseSourceView</a> [permission only]	Grants permission to use a billing view as a data source for other billing views	Read			

## Resource types defined by AWS Billing

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">billingview</a>	arn:\${Partition}:billing::\${Account}:billingview/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



## Condition keys for AWS Billing

AWS Billing defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Billing and Cost Management Dashboards

AWS Billing and Cost Management Dashboards (service prefix: `bcm-dashboards`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing and Cost Management Dashboards](#)

- [Resource types defined by AWS Billing and Cost Management Dashboards](#)
- [Condition keys for AWS Billing and Cost Management Dashboards](#)

## Actions defined by AWS Billing and Cost Management Dashboards

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDashboard</a>	Grants permission to create a dashboard	Write			
<a href="#">DeleteDashboard</a>	Grants permission to delete a dashboard	Write			
<a href="#">GetDashboard</a>	Grants permission to get dashboard information	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy for a dashboard	Read			
<a href="#">ListDashboards</a>	Grants permission to list information about all of the dashboards for a user	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list all of the tags for a resource	Read			
<a href="#">TagResource</a>	Grants permission to create a tag for a resource	Tagging		<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag for a resource	Tagging		<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDashboard</a>	Grants permission to update an existing dashboard	Write			

## Resource types defined by AWS Billing and Cost Management Dashboards

AWS Billing and Cost Management Dashboards does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Billing and Cost Management Dashboards, specify "Resource": "\*" in your policy.

## Condition keys for AWS Billing and Cost Management Dashboards

AWS Billing and Cost Management Dashboards defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Billing And Cost Management Data Exports

AWS Billing And Cost Management Data Exports (service prefix: `bcm-data-exports`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing And Cost Management Data Exports](#)
- [Resource types defined by AWS Billing And Cost Management Data Exports](#)
- [Condition keys for AWS Billing And Cost Management Data Exports](#)

## Actions defined by AWS Billing And Cost Management Data Exports

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateExport</a>	Grants permission to create an export	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">billingview</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteExport</a>	Grants permission to delete an export	Write	<a href="#">export*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExecution</a>	Grants permission to get the execution of an export	Read	<a href="#">export*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExport</a>	Grants permission to get an export	Read	<a href="#">export*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetTable</a>	Grants permission to get the details of a table	Read	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListExecutions</a>	Grants permission to list all executions of an export	List	<a href="#">export*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListExports</a>	Grants permission to list all exports	List			
<a href="#">ListTables</a>	Grants permission to list all available tables	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">export*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">export*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">export*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateExport</a>	Grants permission to update an export	Write	<a href="#">export*</a>		
			<a href="#">table*</a>		
			<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Billing And Cost Management Data Exports

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">export</a>	arn:\${Partition}:bcm-data-exports:\${Region}:\${Account}:export/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">table</a>	arn:\${Partition}:bcm-data-exports:\${Region}:\${Account}:table/\${Identifier}	
<a href="#">billingview</a>	arn:\${Partition}:billing::\${Account}:billingview/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Billing And Cost Management Data Exports

AWS Billing And Cost Management Data Exports defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Billing And Cost Management Pricing Calculator

AWS Billing And Cost Management Pricing Calculator (service prefix: `bcm-pricing-calculator`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing And Cost Management Pricing Calculator](#)
- [Resource types defined by AWS Billing And Cost Management Pricing Calculator](#)
- [Condition keys for AWS Billing And Cost Management Pricing Calculator](#)

### Actions defined by AWS Billing And Cost Management Pricing Calculator

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action

with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBillEstimate</a>	Grants permission to create a new bill estimate. Charge is incurred for successful bill estimates	Write	<a href="#">bill-scenario</a>		
<a href="#">CreateBillScenario</a>	Grants permission to create a new bill scenario	Write		<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBillScenarioCommitmentModification</a>	Grants permission to create new commitments or remove existing commitment from a specified bill scenario	Write	<a href="#">bill-scenario*</a>		
<a href="#">CreateBillScenarioUsageModification</a>	Grants permission to create usage in the specified bill scenario	Write	<a href="#">bill-scenario*</a>		
<a href="#">CreateWorkloadEstimate</a>	Grants permission to create a new Workload estimate	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkloadEstimateUsage</a>	Grants permission to create usage in the specified workload estimate	Write	<a href="#">workload-estimate*</a>		
<a href="#">DeleteBillEstimate</a>	Grants permission to delete bill estimate	Write	<a href="#">bill-estimate*</a>		
<a href="#">DeleteBillScenario</a>	Grants permission to delete a bill scenario	Write	<a href="#">bill-scenario*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBillScenarioCommitmentModification</a>	Grants permission to delete newly added commitments from the specified bill scenario	Write	<a href="#">bill-scenario*</a>		
<a href="#">DeleteBillScenarioUsageModification</a>	Grants permission to delete newly added usage from the specified bill scenario	Write	<a href="#">bill-scenario*</a>		
<a href="#">DeleteWorkloadEstimate</a>	Grants permission to delete the specified workload estimate	Write	<a href="#">workload-estimate*</a>		
<a href="#">DeleteWorkloadEstimateUsage</a>	Grants permission to delete newly added usage from the specified workload estimate	Write	<a href="#">workload-estimate*</a>		
<a href="#">GetBillEstimate</a>	Grants permission to retrieve details of a bill estimate including estimated cost	Read	<a href="#">bill-estimate*</a>		
<a href="#">GetBillScenario</a>	Grants permission to retrieve information associated with a bill scenario	Read	<a href="#">bill-scenario*</a>		
<a href="#">GetPreferences</a>	Grants permission to retrieve applicable rate type preferences for the account	Read			
<a href="#">GetWorkloadEstimate</a>	Grants permission to retrieve information associated with a workload estimate	Read	<a href="#">workload-estimate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBillEstimateCommitments</a>	Grants permission to list commitments associated with the specified bill estimate	List	<a href="#">bill-estimate*</a>		
<a href="#">ListBillEstimateInputCommitmentModifications</a>	Grants permission to list added or removed commitments for a specified bill estimate	List	<a href="#">bill-estimate*</a>		
<a href="#">ListBillEstimateInputUsageModifications</a>	Grants permission to list added or modified usage for a specified bill estimate	List	<a href="#">bill-estimate*</a>		
<a href="#">ListBillEstimateLineItems</a>	Grants permission to list result line items for a specified bill estimate	List	<a href="#">bill-estimate*</a>		
<a href="#">ListBillEstimates</a>	Grants permission to list bill estimates	List			
<a href="#">ListBillScenarioCommitmentModifications</a>	Grants permission to list commitments included in a bill scenario	List	<a href="#">bill-scenario*</a>		
<a href="#">ListBillScenarioUsageModifications</a>	Grants permission to list usage lines of a specified bill scenario	List	<a href="#">bill-scenario*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBillScenarios</a>	Grants permission to list bill scenarios	List			
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for a resource	Tagging			
<a href="#">ListWorkloadEstimateUsage</a>	Grants permission to list usage lines for the specified workload estimate	List	<a href="#">workload-estimate*</a>		
<a href="#">ListWorkloadEstimates</a>	Grants permission to list workload estimates	List			
<a href="#">TagResource</a>	Grants permission to add a tag to a resource	Tagging	<a href="#">bill-scenario</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">workload-estimate</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">bill-scenario</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">workload-estimate</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBillEstimate</a>	Grants permission to update bill estimate name and expiration date time	Write	<a href="#">bill-estimate*</a>		
<a href="#">UpdateBillScenario</a>	Grants permission to update name and expiration date time of the specified bill scenario	Write	<a href="#">bill-scenario*</a>		
<a href="#">UpdateBillScenarioCommitmentModification</a>	Grants permission to update commitment group of commitments in the specified bill scenario	Write	<a href="#">bill-scenario*</a>		
<a href="#">UpdateBillScenarioUsageModification</a>	Grants permission to update usage amount, usage hour, and usage group in the specified bill scenario	Write	<a href="#">bill-scenario*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePreferences</a>	Grants permission to update rate type preferences for the account	Write			
<a href="#">UpdateWorkloadEstimate</a>	Grants permission to update name and expiration date time of the specified workload estimate	Write	<a href="#">workload-estimate*</a>		
<a href="#">UpdateWorkloadEstimateUsage</a>	Grants permission to update usage amount and usage group in the specified workload estimate based on the usage id	Write	<a href="#">workload-estimate*</a>		

## Resource types defined by AWS Billing And Cost Management Pricing Calculator

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">bill-estimate</a>	arn:\${Partition}:bcm-pricing-calculator::\${Account}:bill-estimate/\${Bill EstimateId}	

Resource types	ARN	Condition keys
<a href="#">bill-scenario</a>	arn:\${Partition}:bcm-pricing-calculator::\${Account}:bill-scenario/\${BillScenarioId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workload-estimate</a>	arn:\${Partition}:bcm-pricing-calculator::\${Account}:workload-estimate/\${WorkloadEstimateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Billing And Cost Management Pricing Calculator

AWS Billing And Cost Management Pricing Calculator defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Billing And Cost Management Recommended Actions

AWS Billing And Cost Management Recommended Actions (service prefix: `bcm-recommended-actions`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing And Cost Management Recommended Actions](#)
- [Resource types defined by AWS Billing And Cost Management Recommended Actions](#)
- [Condition keys for AWS Billing And Cost Management Recommended Actions](#)

## Actions defined by AWS Billing And Cost Management Recommended Actions

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action

with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecommendedActions</a>	Grants permission to list all recommended actions	List			

## Resource types defined by AWS Billing And Cost Management Recommended Actions

AWS Billing And Cost Management Recommended Actions does not support specifying a resource ARN in the `Resource` element of an IAM policy statement. To allow access to AWS Billing And Cost Management Recommended Actions, specify `"Resource": "*" in your policy.`

## Condition keys for AWS Billing And Cost Management Recommended Actions

`BillingAndCostManagementRecommendedActions` has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Billing Conductor

AWS Billing Conductor (service prefix: `billingconductor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing Conductor](#)
- [Resource types defined by AWS Billing Conductor](#)
- [Condition keys for AWS Billing Conductor](#)

## Actions defined by AWS Billing Conductor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateAccounts</a>	Grants permission to associate between one and 30 accounts to a billing group	Write	<a href="#">billinggroup*</a>		
<a href="#">AssociatePricingRules</a>	Grants permission to associate pricing rules	Write	<a href="#">pricingplan*</a>		
			<a href="#">pricingrule*</a>		
<a href="#">BatchAssociateResourcesToCustomLineItem</a>	Grants permission to batch associate resources to a percentage custom line item	Write	<a href="#">customlineitem*</a>		
<a href="#">BatchDisassociateResourcesFromCustomLineItem</a>	Grants permission to batch disassociate resources from a percentage custom line item	Write	<a href="#">customlineitem*</a>		
<a href="#">CreateBillingGroup</a>	Grants permission to create a billing group	Write	<a href="#">pricingplan*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomLineItem</a>	Grants permission to create a custom line item	Write	<a href="#">billinggroup*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePricingPlan</a>	Grants permission to create a pricing plan	Write	<a href="#">pricingrule*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePricingRule</a>	Grants permission to create a pricing rule	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteBillingGroup</a>	Grants permission to delete a billing group	Write	<a href="#">billinggroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCustomLineItem</a>	Grants permission to delete a custom line item	Write	<a href="#">customlineitem*</a>		
<a href="#">DeletePricingPlan</a>	Grants permission to delete a pricing plan	Write	<a href="#">pricingplan*</a>		
<a href="#">DeletePricingRule</a>	Grants permission to delete a pricing rule	Write	<a href="#">pricingrule*</a>		
<a href="#">DisassociateAccounts</a>	Grants permission to detach between one and 30 accounts from a billing group	Write	<a href="#">billinggroup*</a>		
<a href="#">DisassociatePricingRules</a>	Grants permission to disassociate pricing rules	Write	<a href="#">pricingplan*</a>		
			<a href="#">pricingrule*</a>		
<a href="#">GetBillingGroupCostReport</a>	Grants permission to view the billing group cost report for the specified billing group	Read	<a href="#">billinggroup*</a>		
<a href="#">ListAccountAssociations</a>	Grants permission to list the linked accounts of the payer account for the given billing period while also providing the billing group the linked accounts belong to	List			
<a href="#">ListBillingGroupCostReports</a>	Grants permission to view the billing group cost report	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBillingGroups</a>	Grants permission to view the details of billing groups	Read			
<a href="#">ListCustomLineItemVersions</a>	Grants permission to view custom line item versions	Read	<a href="#">customlineitem*</a>		
<a href="#">ListCustomLineItems</a>	Grants permission to view custom line item details	Read			
<a href="#">ListPricingPlans</a>	Grants permission to view the pricing plans details	Read			
<a href="#">ListPricingPlansAssociatedWithPricingRule</a>	Grants permission to list pricing plans associated with a pricing rule	List	<a href="#">pricingrule*</a>		
<a href="#">ListPricingRules</a>	Grants permission to view pricing rules details	Read			
<a href="#">ListPricingRulesAssociatedToPricingPlan</a>	Grants permission to list pricing rules associated to a pricing plan	List	<a href="#">pricingplan*</a>		
<a href="#">ListResourcesAssociatedToCustomLineItem</a>	Grants permission to list resources associated to a percentage custom line item	List	<a href="#">customlineitem*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags of a resource	Read	<a href="#">billinggroup</a>		
			<a href="#">customlineitem</a>		
			<a href="#">pricingplan</a>		
			<a href="#">pricingrule</a>		
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">billinggroup</a>		
			<a href="#">customlineitem</a>		
			<a href="#">pricingplan</a>		
			<a href="#">pricingrule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">billinggroup</a> <a href="#">customlineitem</a> <a href="#">pricingplan</a> <a href="#">pricingrule</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBillingGroup</a>	Grants permission to update a billing group	Write	<a href="#">billinggroup*</a>		
<a href="#">UpdateCustomLineItem</a>	Grants permission to update a custom line item	Write	<a href="#">customlineitem*</a>		
<a href="#">UpdatePricingPlan</a>	Grants permission to update a pricing plan	Write	<a href="#">pricingplan*</a>		
<a href="#">UpdatePricingRule</a>	Grants permission to update a pricing rule	Write	<a href="#">pricingrule*</a>		

## Resource types defined by AWS Billing Conductor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">billinggroup</a>	arn:\${Partition}:billingconductor::\${Account}:billinggroup/\${BillingGroupID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">pricingplan</a>	arn:\${Partition}:billingconductor::\${Account}:pricingplan/\${PricingPlanID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">pricingrule</a>	arn:\${Partition}:billingconductor::\${Account}:pricingrule/\${PricingRuleID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">customlineitem</a>	arn:\${Partition}:billingconductor::\${Account}:customlineitem/\${CustomLineItemId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Billing Conductor

AWS Billing Conductor defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Billing Console

AWS Billing Console (service prefix: `aws-portal`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Billing Console](#)
- [Resource types defined by AWS Billing Console](#)
- [Condition keys for AWS Billing Console](#)

## Actions defined by AWS Billing Console

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConsoleActionSetEnforced</a> [permission only]	Grants permission to view whether existing or fine-grained IAM actions are being used to control authorization to Billing, Cost Management, and Account consoles	Read			
<a href="#">ModifyAccount</a> [permission only]	Allow or deny IAM users permission to modify Account Settings	Write			
<a href="#">ModifyBilling</a> [permission only]	Allow or deny IAM users permission to modify billing settings	Write			
<a href="#">ModifyPaymentMethods</a> [permission only]	Allow or deny IAM users permission to modify payment methods	Write			
<a href="#">UpdateConsoleActionSetEnforced</a> [permission only]	Grants permission to change whether existing or fine-grained IAM actions will be used to control authorization to Billing, Cost Management, and Account consoles	Write			
<a href="#">ViewAccount</a> [permission only]	Allow or deny IAM users permission to view account settings	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ViewBilling</a> [permission only]	Allow or deny IAM users permission to view billing pages in the console	Read			
<a href="#">ViewPaymentMethods</a> [permission only]	Allow or deny IAM users permission to view payment methods	Read			
<a href="#">ViewUsage</a> [permission only]	Allow or deny IAM users permission to view AWS usage reports	Read			

## Resource types defined by AWS Billing Console

AWS Billing Console does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Billing Console, specify "Resource": "\*" in your policy.

## Condition keys for AWS Billing Console

Billing Console has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Braket

Amazon Braket (service prefix: `braket`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Braket](#)
- [Resource types defined by Amazon Braket](#)
- [Condition keys for Amazon Braket](#)

## Actions defined by Amazon Braket

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptUserAgreement</a> [permission only]	Grants permission to accept the Amazon Braket user agreement	Write			
<a href="#">CancelJob</a>	Grants permission to cancel a job	Write	<a href="#">job*</a>		
<a href="#">CancelQuantumTask</a>	Grants permission to cancel a quantum task	Write	<a href="#">quantum-task*</a>		
<a href="#">CreateJob</a>	Grants permission to create a job	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateQuantumTask</a>	Grants permission to create a quantum task	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSpendingLimit</a>	Grants permission to create a spending limit	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSpendingLimit</a>	Grants permission to delete a spending limit	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">GetDevice</a>	Grants permission to retrieve information about the devices available in Amazon Braket	Read			
<a href="#">GetJob</a>	Grants permission to retrieve jobs	Read	<a href="#">job*</a>		
<a href="#">GetQuantumTask</a>	Grants permission to retrieve quantum tasks	Read	<a href="#">quantum-task*</a>		
<a href="#">GetServiceLinkedRoleStatus</a> [permission only]	Grants permission to check if the Amazon Braket service linked role has been created	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUserAgreementStatus</a> [permission only]	Grants permission to check if the account has accepted the Amazon Braket user agreement	Read			
<a href="#">ListTagsForResource</a>	Grants permission to listing the tags that have been applied to the quantum task resource or the job	Read	<a href="#">job</a> <a href="#">quantum-task</a> <a href="#">spending-limit</a>		
<a href="#">SearchDevices</a>	Grants permission to search for devices available in Amazon Braket	Read			
<a href="#">SearchJobs</a>	Grants permission to search for jobs	Read			
<a href="#">SearchQuantumTasks</a>	Grants permission to search for quantum tasks	Read			
<a href="#">SearchSpendingLimits</a>	Grants permission to search for spending limit	Read			
<a href="#">TagResource</a>	Grants permission to add one or more tags to a quantum task or a hybrid job	Tagging	<a href="#">job</a> <a href="#">quantum-task</a> <a href="#">spending-limit</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a quantum task resource or a job. A tag consists of a key-value pair	Tagging	<a href="#">job</a>  <a href="#">quantum-task</a>  <a href="#">spending-limit</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateSpendingLimit</a>	Grants permission to update a spending limit	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



## Resource types defined by Amazon Braket

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">quantum-task</a>	arn:\${Partition}:braket:\${Region}:\${Account}:quantum-task/\${RandomId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job</a>	arn:\${Partition}:braket:\${Region}:\${Account}:job/\${JobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">spending-limit</a>	arn:\${Partition}:braket:\${Region}:\${Account}:spending-limit/\${RandomId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Braket

Amazon Braket defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Budget Service

AWS Budget Service (service prefix: `budgets`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Budget Service](#)
- [Resource types defined by AWS Budget Service](#)
- [Condition keys for AWS Budget Service](#)

## Actions defined by AWS Budget Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

 **Note**

The actions in this table are not APIs, but are instead permissions that grant access to the AWS Billing and Cost Management APIs that access budgets.

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBudgetAction</a>	Grants permission to configure a response that executes once your budget exceeds a specific budget threshold. Creating a budget action with tags also requires the 'budgets:TagResource' permission	Write	<a href="#">budgetAction*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:PassRole
<a href="#">DeleteBudgetAction</a>	Grants permission to delete an action that is associated with a specific budget	Write	<a href="#">budgetAction*</a>		
<a href="#">DescribeBudgetAction</a>	Grants permission to retrieve the details of a specific budget action associated with a budget	Read	<a href="#">budgetAction*</a>		
<a href="#">DescribeBudgetActionHistories</a>	Grants permission to retrieve a historical view of the budget actions statuses associated with a particular budget action. These status include statuses such as 'Standby', 'Pending' and 'Executed'	Read	<a href="#">budgetAction*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBudgetActionsForAccount</a>	Grants permission to retrieve the details of all of the budget actions associated with your account	Read			
<a href="#">DescribeBudgetActionsForBudget</a>	Grants permission to retrieve the details of all of the budget actions associated with a budget	Read	<a href="#">budget*</a>		
<a href="#">ExecuteBudgetAction</a>	Grants permission to initiate a pending budget action as well as reverse a previously executed budget action	Write	<a href="#">budgetAction*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to view resource tags for a budget or budget action	Read	<a href="#">budget</a> <a href="#">budgetAction</a>		
<a href="#">ModifyBudget</a>	Grants permission to create and modify budgets, and edit budget details. Creating a budget with tags also requires the 'budgets:TagResource' permission	Write	<a href="#">budget*</a>		iam:CreateServiceLinkedRole
<a href="#">TagResource</a>	Grants permission to apply resource tags to a budget or budget action. Also needed to create a budget or budget action with tags	Tagging	<a href="#">budget</a> <a href="#">budgetAction</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove resource tags from a budget or budget action	Tagging	<a href="#">budget</a> <a href="#">budgetAction</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBudgetAction</a>	Grants permission to update the details of a specific budget action associated with a budget	Write	<a href="#">budgetAction*</a>		iam:PassRole
<a href="#">ViewBudget</a>	Grants permission to view budgets and budget details	Read	<a href="#">budget*</a>		billing:GetBillingViewData

## Resource types defined by AWS Budget Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">budget</a>	arn:\${Partition}:budgets::\${Account}:budget/\${BudgetName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">budgetAction</a>	arn:\${Partition}:budgets::\${Account}:budget/\${BudgetName}/action/\${ActionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

## Condition keys for AWS Budget Service

AWS Budget Service defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS BugBust

AWS BugBust (service prefix: bugbust) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS BugBust](#)
- [Resource types defined by AWS BugBust](#)
- [Condition keys for AWS BugBust](#)

## Actions defined by AWS BugBust

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which



the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEvent</a> [permission only]	Grants permission to create a BugBust event	Write		<a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">EvaluateProfilingGroups</a> [permission only]	Grants permission to evaluate checked-in profiling groups	Write	<a href="#">Event*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEvent</a> [permission only]	Grants permission to view customer details about an event	Read	<a href="#">Event*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetJoinEventStatus</a> [permission only]	Grants permission to view the status of a BugBust player's attempt to join a BugBust event	Read	<a href="#">Event*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">JoinEvent</a> [permission only]	Grants permission to join an event	Write	<a href="#">Event*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBugs</a> [permission only]	Grants permission to view the bugs that were imported into an event for players to work on	Read	<a href="#">Event*</a>		codeguru-reviewer: DescribeCodeReviews  codeguru-reviewer: ListRecommendations
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListEventParticipants</a> [permission only]	Grants permission to view the participants of an event	Read	<a href="#">Event*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListEventScores</a> [permission only]	Grants permission to view the scores of an event's players	Read	<a href="#">Event*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEvents</a> [permission only]	Grants permission to List BugBust events	List		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListProfilingGroups</a> [permission only]	Grants permission to view the profiling groups that were imported into an event for players to work on	Read	<a href="#">Event*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListPullRequests</a> [permission only]	Grants permission to view the pull requests used by players to submit fixes to their claimed bugs in an event	Read	<a href="#">Event*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to lists tag for a Bugbust resource	Read	<a href="#">Event*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a> [permission only]	Grants permission to tag a Bugbust resource	Tagging	<a href="#">Event*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to untag a Bugbust resource	Tagging	<a href="#">Event*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEvent</a> [permission only]	Grants permission to update a BugBust event	Write	<a href="#">Event*</a>		codeguru-profiler: DescribeProfilingGroup  codeguru-profiler: ListProfilingGroups  codeguru-reviewer: DescribeCodeReviews  codeguru-reviewer: ListCodeReviews  codeguru-reviewer: ListRecommendations  codeguru-reviewer: TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					codeguru-reviewer: UnTagResource
<a href="#">UpdateWorkItem</a> [permission only]	Grants permission to update a work item as claimed or unclaimed (bug or profiling group)	Write	<a href="#">Event*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	codeguru-reviewer: ListRecommendations
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateWorkItemAdmin</a> [permission only]	Grants permission to update an event's work item (bug or profiling group)	Write	<a href="#">Event*</a>		codeguru-reviewer: ListRecommendations
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS BugBust

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Event</a>	arn:\${Partition}:bugbust:\${Region}:\${Account}:events/\${EventId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS BugBust

AWS BugBust defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString



## Actions, resources, and condition keys for AWS Certificate Manager

AWS Certificate Manager (service prefix: acm) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Certificate Manager](#)
- [Resource types defined by AWS Certificate Manager](#)
- [Condition keys for AWS Certificate Manager](#)

## Actions defined by AWS Certificate Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToCertificate</a>	Grants permission to add one or more tags to a certificate	Tagging	<a href="#">certificates*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCertificate</a>	Grants permission to delete a certificate and its associated private key	Write	<a href="#">certificate*</a>		
<a href="#">DescribeCertificate</a>	Grants permission to retrieve a certificates and its metadata	Read	<a href="#">certificate*</a>		
<a href="#">ExportCertificate</a>	Grants permission to export an exportable certificate for use anywhere	Read	<a href="#">certificate*</a>	<a href="#">acm:DomainNames</a>	
<a href="#">GetAccountConfiguration</a>	Grants permission to retrieve account level configuration from AWS Certificate Manager	Read			
<a href="#">GetCertificate</a>	Grants permission to retrieve a certificate and certificate chain for a certificate ARN	Read	<a href="#">certificate*</a>		
<a href="#">ImportCertificate</a>	Grants permission to import a 3rd party certificate into AWS Certificate Manager (ACM)	Write	<a href="#">certificate*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCertificates</a>	Grants permission to retrieve a list of the certificate ARNs and the domain name for each ARN	List			
<a href="#">ListTagsForCertificate</a>	Grants permission to lists the tags that have been associated with a certificate	Read	<a href="#">certificate*</a>		
<a href="#">PutAccountConfiguration</a>	Grants permission to update account level configuration in AWS Certificate Manager	Write			
<a href="#">RemoveTagsFromCertificate</a>	Grants permission to remove one or more tags from a certificate	Tagging	<a href="#">certificate*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RenewCertificate</a>	Grants permission to renew an eligible private certificate	Write	<a href="#">certificate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RequestCertificate</a>	Grants permission to requests a public or private certificate	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">acm:DomainNames</a> <a href="#">acm:CertificateTransparencyLogging</a> <a href="#">acm:ValidationMethod</a> <a href="#">acm:KeyAlgorithm</a> <a href="#">acm:CertificateAuthority</a> <a href="#">acm:Export</a>	
<a href="#">ResendValidationEmail</a>	Grants permission to resend an email to request domain ownership validation	Write	<a href="#">certificate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokeCertificate</a>	Grants permission to revoke an exportable certificate	Write	<a href="#">certificate*</a>		
				<a href="#">acm:DomainNames</a>	
<a href="#">UpdateCertificateOptions</a>	Grants permission to update a certificate configuration. Use this to specify whether to opt in to or out of certificate transparency logging	Write	<a href="#">certificate*</a>		

## Resource types defined by AWS Certificate Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">certificate</a>	arn:\${Partition}:acm:\${Region}:\${Account}:certificate/\${CertificateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Certificate Manager

AWS Certificate Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">acm:CertificateAuthority</a>	Filters access by certificateAuthority in the request. Can be used to restrict which Certificate Authorities certificates can be issued from	String
<a href="#">acm:CertificateTransparencyLogging</a>	Filters access by certificateTransparencyLogging option in the request. Default 'ENABLED' if no key is present in the request	String
<a href="#">acm:DomainNames</a>	Filters access by domainNames in the request. This key can be used to restrict which domains can be in certificate requests	ArrayOfString
<a href="#">acm:Export</a>	Filters access by the export option in the request. Can be used to restrict creation of certificates that can be exported	String
<a href="#">acm:KeyAlgorithm</a>	Filters access by keyAlgorithm in the request	String
<a href="#">acm:ValidationMethod</a>	Filters access by validationMethod in the request. Default 'EMAIL' if no key is present in the request	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Chatbot

AWS Chatbot (service prefix: chatbot) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Chatbot](#)
- [Resource types defined by AWS Chatbot](#)
- [Condition keys for AWS Chatbot](#)

### Actions defined by AWS Chatbot

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern



for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateToConfiguration</a>	Grants permission to associate a resource with a configuration	Write	<a href="#">ChatbotConfiguration*</a>		
			<a href="#">custom-action*</a>		
				<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">CreateChimeWebhookConfiguration</a>	Grants permission to create an AWS Chatbot Chime Webhook Configuration	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateCustomAction</a>	Grants permission to create a custom action	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateMicrosoftTeamsChannelConfiguration</a>	Grants permission to create an AWS Chatbot Microsoft Teams Channel Configuration	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateSlackChannelConfiguration</a>	Grants permission to create an AWS Chatbot Slack Channel Configuration	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteChimeWebhookConfiguration</a>	Grants permission to delete an AWS Chatbot Chime Webhook Configuration	Write	<a href="#">ChatbotConfiguration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteCustomAction</a>	Grants permission to delete a custom action	Write	<a href="#">custom-action*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteMicrosoftTeamsChannelConfiguration</a>	Grants permission to delete an AWS Chatbot Microsoft Teams Channel Configuration	Write	<a href="#">ChatbotConfiguration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteMicrosoftTeamsConfiguredTeam</a>	Grants permission to delete the Microsoft Teams configured with AWS Chatbot in an AWS account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMicrosoftTeamsUserIdentity</a>	Grants permission to delete an AWS Chatbot Microsoft Teams User Identity	Write			
<a href="#">DeleteSlackChannelConfiguration</a>	Grants permission to delete an AWS Chatbot Slack Channel Configuration	Write	<a href="#">ChatbotConfiguration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSlackUserIdentity</a>	Grants permission to delete an AWS Chatbot Slack User Identity	Write			
<a href="#">DeleteSlackWorkspaceAuthorization</a>	Grants permission to delete the Slack workspace authorization with AWS Chatbot, associated with an AWS account	Write			
<a href="#">DescribeChimeWebhookConfigurations</a>	Grants permission to list all AWS Chatbot Chime Webhook Configurations in an AWS Account	Read			
<a href="#">DescribeSlackChannelConfigurations</a>	Grants permission to list all AWS Chatbot Slack Channel Configurations in an AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSlackChannels</a>	Grants permission to list all public Slack channels in the Slack workspace connected to the AWS Account onboarded with AWS Chatbot service	Read			
<a href="#">DescribeSlackUserIdentities</a>	Grants permission to describe AWS Chatbot Slack User Identities	Read			
<a href="#">DescribeSlackWorkspaces</a>	Grants permission to list all authorized Slack workspaces connected to the AWS Account onboarded with AWS Chatbot service	Read			
<a href="#">DisassociateFromConfiguration</a>	Grants permission to disassociate a resource from a configuration	Write	<a href="#">ChatbotConfiguration*</a>		
			<a href="#">custom-action*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccountPreferences</a>	Grants permission to retrieve AWS Chatbot account preferences	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCustomAction</a>	Grants permission to get a custom action	Read	<a href="#">custom-action*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetMicrosoftTeamsChannelConfiguration</a>	Grants permission to get a single AWS Chatbot Microsoft Teams Channel Configurations in an AWS account	Read		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetMicrosoftTeamsOAuthParameters</a>	Grants permission to generate OAuth parameters to request Microsoft Teams OAuth code to be used by the AWS Chatbot service	Read			
<a href="#">GetSlackOAuthParameters</a>	Grants permission to generate OAuth parameters to request Slack OAuth code to be used by the AWS Chatbot service	Read			
<a href="#">ListAssociations</a>	Grants permission to list resources associated with a configuration	Read	<a href="#">ChatbotConfiguration*</a>		
<a href="#">ListCustomActions</a>	Grants permission to list custom actions	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMicrosoftTeamsChannelConfigurations</a>	Grants permission to list all AWS Chatbot Microsoft Teams Channel Configurations in an AWS account	Read			
<a href="#">ListMicrosoftTeamsConfiguredTeams</a>	Grants permission to list all Microsoft Teams connected to the AWS Account onboarded with AWS Chatbot service	Read			
<a href="#">ListMicrosoftTeamsUserIdentities</a>	Grants permission to describe AWS Chatbot Microsoft Teams User Identities	Read			
<a href="#">ListTagsForResource</a>	Grants permission to List all tags associated with the AWS Chatbot Channel Configuration	Read			
<a href="#">RedeemMicrosoftTeamsOAuthCode</a>	Grants permission to redeem previously generated parameters with Microsoft APIs, to acquire OAuth tokens to be used by the AWS Chatbot service	Write			
<a href="#">RedeemSlackOAuthCode</a>	Grants permission to redeem previously generated parameters with Slack API, to acquire OAuth tokens to be used by the AWS Chatbot service	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to create tags on AWS Chatbot Channel Configuration	Tagging	<a href="#">ChatbotConfiguration</a>		
			<a href="#">custom-action</a>		
				<a href="#">aws:TagKeys</a>	<a href="#">aws:RequestTag/\${TagKey}</a>
<a href="#">UntagResource</a>	Grants permission to remove tags on AWS Chatbot Channel Configuration	Tagging	<a href="#">ChatbotConfiguration</a>		
			<a href="#">custom-action</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountPreferences</a>	Grants permission to update AWS Chatbot account preferences	Write			
<a href="#">UpdateChimeWebhookConfiguration</a>	Grants permission to update an AWS Chatbot Chime Webhook Configuration	Write	<a href="#">ChatbotConfiguration*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateCustomAction</a>	Grants permission to update a custom action	Write	<a href="#">custom-action*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateMicrosoftTeamsChannelConfiguration</a>	Grants permission to update an AWS Chatbot Microsoft Teams Channel Configuration	Write	<a href="#">ChatbotConfiguration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSlackChannelConfiguration</a>	Grants permission to update an AWS Chatbot Slack Channel Configuration	Write	<a href="#">ChatbotConfiguration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Chatbot

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">ChatbotConfiguration</a>	arn:\${Partition}:chatbot::\${Account}:chat-configuration/\${ConfigurationType}/\${ChatbotConfigurationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custom-action</a>	arn:\${Partition}:chatbot::\${Account}:custom-action/\${ActionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Chatbot

AWS Chatbot defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Chime

Amazon Chime (service prefix: `chime`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Chime](#)
- [Resource types defined by Amazon Chime](#)
- [Condition keys for Amazon Chime](#)

## Actions defined by Amazon Chime

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptDelegate</a>	Grants permission to accept the delegate invitation to share management of an Amazon Chime account with another AWS Account	Write			
<a href="#">ActivateUsers</a>	Grants permission to activate users in an Amazon Chime Enterprise account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddDomain</a>	Grants permission to add a domain to your Amazon Chime account	Write			
<a href="#">AddOrUpdateGroups</a>	Grants permission to add new or update existing Active Directory or Okta user groups associated with your Amazon Chime Enterprise account	Write			
<a href="#">AssociateChannelFlow</a>	Grants permission to associate a flow with a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
			<a href="#">channel-flow*</a>		
<a href="#">AssociatePhoneNumberWithUser</a>	Grants permission to associate a phone number with an Amazon Chime user	Write			
<a href="#">AssociatePhoneNumbersWithVoiceConnector</a>	Grants permission to associate multiple phone numbers with an Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociatePhoneNumbersWithVoiceConnectorGroup</a>	Grants permission to associate multiple phone numbers with an Amazon Chime Voice Connector Group	Write			
<a href="#">AssociateSignInDelegatorGroupsWithAccount</a>	Grants permission to associate the specified sign-in delegate groups with the specified Amazon Chime account	Write			
<a href="#">AssociateVoiceConnectorConnect</a> [permission only]	Grants permission to associate the specified Amazon Connect instance with an Amazon Chime Voice Connector	Write			
<a href="#">AuthorizeDirectory</a>	Grants permission to authorize an Active Directory for your Amazon Chime Enterprise account	Write			
<a href="#">BatchCreateAttendee</a>	Grants permission to create new attendees for an active Amazon Chime SDK meeting	Write	<a href="#">meeting*</a>		
<a href="#">BatchCreateChannelMembership</a>	Grants permission to add multiple users and bots to a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">channel*</a>		
<a href="#">BatchCreateRoomMembers</a>	Grants permission to batch add room members	Write			
<a href="#">BatchDeletePhoneNumber</a>	Grants permission to move up to 50 phone numbers to the deletion queue	Write			
<a href="#">BatchSuspendUser</a>	Grants permission to suspend up to 50 users from a Team or EnterpriseLWA Amazon Chime account	Write			
<a href="#">BatchUnsuspendUser</a>	Grants permission to remove the suspension from up to 50 previously suspended users for the specified Amazon Chime EnterpriseLWA account	Write			
<a href="#">BatchUpdateAttendeeCapabilitiesExcept</a>	Grants permission to update AttendeeCapabilities except the capabilities listed in an ExcludedAttendeeIds table	Write	<a href="#">meeting*</a>		
<a href="#">BatchUpdatePhoneNumber</a>	Grants permission to update phone number details within the UpdatePhoneNumberRequestItem object for up to 50 phone numbers	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchUpdateUser</a>	Grants permission to update user details within the UpdateUserRequestItem object for up to 20 users for the specified Amazon Chime account	Write			
<a href="#">ChannelFlowCallback</a>	Grants permission to callback for a message on a channel	Write	<a href="#">channel*</a>		
<a href="#">Connect</a>	Grants permission to establish a web socket connection for app instance user to the messaging session endpoint	Write	<a href="#">app-instance-user*</a>		
<a href="#">ConnectDirectory</a>	Grants permission to connect an Active Directory to your Amazon Chime Enterprise account	Write			ds:ConnectDirectory
<a href="#">CreateAccount</a>	Grants permission to create an Amazon Chime account under the administrator's AWS account	Write			
<a href="#">CreateApiKey</a>	Grants permission to create a new SCIM access key for your Amazon Chime account and Okta configuration	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAppInstance</a>	Grants permission to create an app instance in the AWS account (tag-based access controls are only supported on identity-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAppInstanceAdmin</a>	Grants permission to promote a user or bot to an AppInstanceAdmin	Write	<a href="#">app-instance*</a>  <a href="#">app-instance-bot*</a>  <a href="#">app-instance-user*</a>		
<a href="#">CreateAppInstanceBot</a>	Grants permission to create a bot within an AppInstance (tag-based access controls are only supported on identity-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAppInstanceUser</a>	Grants permission to create a user within an AppInstance (tag-based access controls are only supported on identity-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAttendee</a>	Grants permission to create a new attendee for an active Amazon Chime SDK meeting	Write	<a href="#">meeting*</a>		
<a href="#">CreateBot</a>	Grants permission to create a bot for an Amazon Chime Enterprise account	Write			
<a href="#">CreateCDRBucket</a>	Grants permission to create a new Call Detail Record S3 bucket	Write			s3:CreateBucket  s3:ListAllMyBuckets
<a href="#">CreateChannel</a>	Grants permission to create a channel for an app instance in the AWS account (tag-based access controls are only supported on messaging-chime.<region>.amazonaws.com endpoints)	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateChannelBan</a>	Grants permission to ban a user or bot from a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">channel*</a>		
<a href="#">CreateChannelFlow</a>	Grants permission to create a channel flow for an app instance in the AWS account (tag-based access controls are only supported on messaging -chime.<region>.amazonaws.com endpoints)	Write	<a href="#">app-instance*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateChannelMembership</a>	Grants permission to add a user or bot to a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">CreateChannelModerator</a>	Grants permission to create a channel moderator	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnectAnalyticsConnector</a> [permission only]	Grants permission to create an Amazon Connect Analytics Connector in the AWS account (tag-based access controls are only supported on voice-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	chime:CreateVoiceConnector
<a href="#">CreateConnectCallTransferConnector</a> [permission only]	Grants permission to create an Amazon Connect Call Transfer Connector in the AWS account (tag-based access controls are only supported on voice-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	chime:CreateVoiceConnector
<a href="#">CreateMediaCapturePipeline</a>	Grants permission to create a media capture pipeline (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	s3:GetBucketPolicy
<a href="#">CreateMediaConcatenationPipeline</a>	Grants permission to create a media concatenation pipeline (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	s3:GetBucketPolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMediaInsightsPipeline</a>	Grants permission to create a media insights pipeline (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write	<a href="#">media-insights-pipeline-configuration*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	chime:TagResource  kinesivideo:DescribeStream
<a href="#">CreateMediaInsightsPipelineConfiguration</a>	Grants permission to create a media insights pipeline configuration (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	chime:TagResource  iam:PassRole  kinesis:DescribeStream  s3:ListBucket

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMediaLiveConnectorPipeline</a>	Grants permission to create a media live connector pipeline (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateMediaPipelineKinesisVideoStreamPool</a>	Grants permission to create kinesis video stream pool (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	kinesis:DescribeStream  kinesisvideo:CreateStream  kinesisvideo:GetDataEndpoint  kinesisvideo:ListStreams

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMediaStreamPipeline</a>	Grants permission to create a media stream pipeline (tag-based access controls are only supported on media-pipelines-chime.<region>.amazonaws.com endpoints)	Write	<a href="#">media-pipeline-kinesis-video-stream-pool*</a>		kinesisvideo:DescribeStream  kinesisvideo:GetDataEndpoint  kinesisvideo:PutMedia
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateMeeting</a>	Grants permission to create a new meeting in the specified media Region, with no initial attendees (tag-based access controls are only supported on meetings-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMeetingDialOut</a>	Grants permission to call a phone number to join the specified Amazon Chime SDK meeting	Write	<a href="#">meeting*</a>		
<a href="#">CreateMeetingWithAttendees</a>	Grants permission to create a new meeting in the specified media Region, with a set of attendees (tag-based access controls are only supported on meetings-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePhoneNumberOrder</a>	Grants permission to create a phone number order with the Carriers	Write			
<a href="#">CreateProxySession</a>	Grants permission to create a proxy session for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">CreateRoom</a>	Grants permission to create a room	Write			
<a href="#">CreateRoomMembership</a>	Grants permission to add a room member	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSipMediaApplication</a>	Grants permission to create an Amazon Chime SIP media application in the AWS account (tag-based access controls are only supported on voice-chime.<region>.amazonaws.com endpoints )	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateSipMediaApplicationCall</a>	Grants permission to create outbound call for Amazon Chime SIP media application under the administrator's AWS account	Write	<a href="#">sip-media-application*</a>		
<a href="#">CreateSipRule</a>	Grants permission to create an Amazon Chime SIP rule under the administrator's AWS account	Write	<a href="#">sip-media-application</a>		
<a href="#">CreateUser</a>	Grants permission to create a user under the specified Amazon Chime account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVoiceConnector</a>	Grants permission to create a Voice Connector in the AWS account (tag-based access controls are only supported on voice-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	chime:CreateConnector  chime:CreateConnectorCallTransferConnector
<a href="#">CreateVoiceConnectorGroup</a>	Grants permission to create a Amazon Chime Voice Connector Group under the administrator's AWS account	Write	<a href="#">voice-connector</a>		
<a href="#">CreateVoiceProfile</a>	Grants permission to create a voice profile	Write			
<a href="#">CreateVoiceProfileDomain</a>	Grants permission to create a voice profile domain (tag-based access controls are only supported on voice-chime.<region>.amazonaws.com endpoints)	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	chime:TagResource  kms:CreateGrant  kms:DescribeKey
<a href="#">DeleteAccount</a>	Grants permission to delete the specified Amazon Chime account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccountOpenIdConfig</a>	Grants permission to delete the OpenIdConfig attributes from your Amazon Chime account	Write			
<a href="#">DeleteApiKey</a>	Grants permission to delete the specified SCIM access key associated with your Amazon Chime account and Okta configuration	Write			
<a href="#">DeleteAppInstance</a>	Grants permission to delete an AppInstance	Write	<a href="#">app-instance*</a>		
<a href="#">DeleteAppInstanceAdmin</a>	Grants permission to demote an AppInstanceAdmin to a user or bot	Write	<a href="#">app-instance*</a>		
			<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
<a href="#">DeleteAppInstanceBot</a>	Grants permission to delete an AppInstanceBot	Write	<a href="#">app-instance-bot*</a>		
<a href="#">DeleteAppInstanceStreamingConfigurations</a>	Grants permission to disable data streaming for the app instance	Write	<a href="#">app-instance*</a>		
<a href="#">DeleteAppInstanceUser</a>	Grants permission to delete an AppInstanceUser	Write	<a href="#">app-instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAttendee</a>	Grants permission to delete the specified attendee from an Amazon Chime SDK meeting	Write	<a href="#">meeting*</a>		
<a href="#">DeleteCDRBucket</a>	Grants permission to delete a Call Detail Record S3 bucket from your Amazon Chime account	Write			s3:DeleteBucket
<a href="#">DeleteChannel</a>	Grants permission to delete a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DeleteChannelBan</a>	Grants permission to remove a user or bot from a channel's ban list	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DeleteChannelFlow</a>	Grants permission to delete a channel flow	Write	<a href="#">channel*</a>		
<a href="#">DeleteChannelMembership</a>	Grants permission to remove a member from a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">channel*</a>		
<a href="#">DeleteChannelMessage</a>	Grants permission to delete a channel message	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DeleteChannelModerator</a>	Grants permission to delete a channel moderator	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DeleteDelegate</a>	Grants permission to delete delegated AWS account management from your Amazon Chime account	Write			
<a href="#">DeleteDomain</a>	Grants permission to delete a domain from your Amazon Chime account	Write			
<a href="#">DeleteEventsConfiguration</a>	Grants permission to delete an events configuration for a bot to receive outgoing events	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteGroups</a>	Grants permission to delete Active Directory or Okta user groups from your Amazon Chime Enterprise account	Write			
<a href="#">DeleteMediaCapturePipeline</a>	Grants permission to delete a media capture pipeline	Write	<a href="#">media-pipeline*</a>		
<a href="#">DeleteMediaInsightsPipelineConfiguration</a>	Grants permission to delete a media insights pipeline configuration	Write	<a href="#">media-insights-pipeline-configuration*</a>		chime:ListVoiceConnectors
<a href="#">DeleteMediaPipeline</a>	Grants permission to delete a media pipeline	Write	<a href="#">media-pipeline*</a>		
<a href="#">DeleteMediaPipelineKinesisVideoStreamPool</a>	Grants permission to delete kinesis video stream pool	Write	<a href="#">media-pipeline-kinesis-video-stream-pool*</a>		
<a href="#">DeleteMeeting</a>	Grants permission to delete the specified Amazon Chime SDK meeting	Write	<a href="#">meeting*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMessagingStreamingConfigurations</a>	Grants permission to delete the data streaming configurations of an AppInstance	Write	<a href="#">app-instance*</a>		
<a href="#">DeletePhoneNumber</a>	Grants permission to move a phone number to the deletion queue	Write			
<a href="#">DeleteProxySession</a>	Grants permission to delete a proxy session for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteRoom</a>	Grants permission to delete a room	Write			
<a href="#">DeleteRoomMembership</a>	Grants permission to remove a room member	Write			
<a href="#">DeleteSipMediaApplication</a>	Grants permission to delete Amazon Chime SIP media application under the administrator's AWS account	Write	<a href="#">sip-media-application*</a>		
<a href="#">DeleteSipRule</a>	Grants permission to delete Amazon Chime SIP rule under the administrator's AWS account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVoiceConnector</a>	Grants permission to delete the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		logs:CreateLogDelivery  logs>DeleteLogDelivery  logs:GetLogDelivery  logs:ListLogDeliveries
<a href="#">DeleteVoiceConnectorEmergencyCallingConfiguration</a>	Grants permission to delete emergency calling configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceConnectorExternalSystemsConfiguration</a>	Grants permission to delete the configuration of the external system that is connected with the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceConnectorGroup</a>	Grants permission to delete the specified Amazon Chime Voice Connector Group	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVoiceConnect orOrignation</a>	Grants permission to delete the origination settings for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceConnect orProxy</a>	Grants permission to delete proxy configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceConnect orStreami ngConfigu ration</a>	Grants permission to delete streaming configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceConnect orTermina tion</a>	Grants permission to delete the termination settings for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceConnect orTermina tionCrede ntials</a>	Grants permission to delete SIP termination credentials for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DeleteVoiceProfile</a>	Grants permission to delete a voice profile	Write	<a href="#">voice-profile*</a>		
<a href="#">DeleteVoiceProfile Domain</a>	Grants permission to delete a voice profile domain	Write	<a href="#">voice-profile-domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterAppInstanceUserEndpoint</a>	Grants permission to deregister an endpoint for an app instance user	Write	<a href="#">app-instance-user*</a>		
<a href="#">DescribeAppInstance</a>	Grants permission to get the full details of an AppInstance	Read	<a href="#">app-instance*</a>		
<a href="#">DescribeAppInstanceAdmin</a>	Grants permission to get the full details of an AppInstanceAdmin	Read	<a href="#">app-instance*</a> <a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a>		
<a href="#">DescribeAppInstanceBot</a>	Grants permission to get the full details of an AppInstanceBot	Read	<a href="#">app-instance-bot*</a>		
<a href="#">DescribeAppInstanceUser</a>	Grants permission to get the full details of an AppInstanceUser	Read	<a href="#">app-instance-user*</a>		
<a href="#">DescribeAppInstanceUserEndpoint</a>	Grants permission to describe an endpoint registered for an app instance user	Read	<a href="#">app-instance-user*</a>		
<a href="#">DescribeChannel</a>	Grants permission to get the full details of a channel	Read	<a href="#">app-instance-bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DescribeChannelBan</a>	Grants permission to get the full details of a channel ban	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DescribeChannelFlow</a>	Grants permission to get the full details of a channel flow	Read	<a href="#">channel-flow*</a>		
<a href="#">DescribeChannelMembership</a>	Grants permission to get the full details of a channel membership	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DescribeChannelMembershipForAppInstanceUser</a>	Grants permission to get the details of a channel based on the membership of the specified user or bot	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeChannelModeratedByAppInstanceUser</a>	Grants permission to get the full details of a channel moderated by the specified user or bot	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DescribeChannelModerator</a>	Grants permission to get the full details of a single ChannelModerator	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">DisassociateChannelFlow</a>	Grants permission to disassociate a flow from a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
			<a href="#">channel-flow*</a>		
<a href="#">DisassociatePhoneNumberFromUser</a>	Grants permission to disassociate the primary provisioned number from the specified Amazon Chime user	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociatePhoneNumbersFromVoiceConnector</a>	Grants permission to disassociate multiple phone numbers from the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">DisassociatePhoneNumbersFromVoiceConnectorGroup</a>	Grants permission to disassociate multiple phone numbers from the specified Amazon Chime Voice Connector Group	Write			
<a href="#">DisassociateSigninDelegateGroupsFromAccount</a>	Grants permission to disassociate the specified sign-in delegate groups from the specified Amazon Chime account	Write			
<a href="#">DisassociateVoiceConnectorConnect</a> [permission only]	Grants permission to disassociate the Amazon Connect instance from the specified Amazon Chime Voice Connector	Write			
<a href="#">DisconnectDirectory</a>	Grants permission to disconnect the Active Directory from your Amazon Chime Enterprise account	Write			
<a href="#">GetAccount</a>	Grants permission to get details for the specified Amazon Chime account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountResource</a>	Grants permission to get details for the account resource associated with your Amazon Chime account	Read			
<a href="#">GetAccountSettings</a>	Grants permission to get account settings for the specified Amazon Chime account ID	Read			
<a href="#">GetAccountWithOpenIdConfig</a>	Grants permission to get the account details and OpenIdConfig attributes for your Amazon Chime account	Read			
<a href="#">GetAppInstanceRetentionSettings</a>	Grants permission to get retention settings for an app instance	Read	<a href="#">app-instance*</a>		
<a href="#">GetAppInstanceStreamingConfigurations</a>	Grants permission to get the streaming configurations for an app instance	Read	<a href="#">app-instance*</a>		
<a href="#">GetAttendee</a>	Grants permission to get attendee details for a specified meeting ID and attendee ID	Read	<a href="#">meeting*</a>		
<a href="#">GetBot</a>	Grants permission to retrieve details for the specified bot	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCDRBucket</a>	Grants permission to get details of a Call Detail Record S3 bucket associated with your Amazon Chime account	Read			s3:GetBucketAcl s3:GetBucketLocation s3:GetBucketLogging s3:GetBucketVersioning s3:GetBucketWebsite
<a href="#">GetChannelMembershipPreferences</a>	Grants permission to get the preferences for a channel membership	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">GetChannelMessage</a>	Grants permission to get the full details of a channel message	Read	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetChannelMessageStatus</a>	Grants permission to get the status of a channel message	Read	<a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a> <a href="#">channel*</a>		
<a href="#">GetDomain</a>	Grants permission to get domain details for a domain associated with your Amazon Chime account	Read			
<a href="#">GetEventsConfiguration</a>	Grants permission to retrieve details for an events configuration for a bot to receive outgoing events	Read			
<a href="#">GetGlobalSettings</a>	Grants permission to get global settings related to Amazon Chime for the AWS account	Read			
<a href="#">GetMediaCapturePipeline</a>	Grants permission to get an existing media capture pipeline	Read	<a href="#">media-pipeline*</a>		
<a href="#">GetMediaInsightsPipelineConfiguration</a>	Grants permission to get a media insights pipeline configuration	Read	<a href="#">media-insights-pipeline-configuration*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMediaPipeline</a>	Grants permission to get an existing media pipeline	Read	<a href="#">media-pipeline*</a>		
<a href="#">GetMediaPipelineKinesisVideoStreamPool</a>	Grants permission to get an existing media pipeline	Read	<a href="#">media-pipeline-kinesis-video-stream-pool*</a>		
<a href="#">GetMeeting</a>	Grants permission to get the meeting record for a specified meeting ID	Read	<a href="#">meeting*</a>		
<a href="#">GetMeetingDetail</a>	Grants permission to get attendee, connection, and other details for a meeting	Read			
<a href="#">GetMessagingSessionEndpoint</a>	Grants permission to get the endpoint for the messaging session	Read			
<a href="#">GetMessagingStreamingConfigurations</a>	Grants permission to get the data streaming configurations of an AppInstance	Read	<a href="#">app-instance*</a>		
<a href="#">GetPhoneNumber</a>	Grants permission to get details for the specified phone number	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPhoneNumberOrder</a>	Grants permission to get details for the specified phone number order	Read			
<a href="#">GetPhoneNumberSettings</a>	Grants permission to get phone number settings related to Amazon Chime for the AWS account	Read			
<a href="#">GetProxySession</a>	Grants permission to get details of the specified proxy session for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetRetentionSettings</a>	Grants permission to retrieve the retention settings for the specified Amazon Chime account	Read			
<a href="#">GetRoom</a>	Grants permission to retrieve a room	Read			
<a href="#">GetSipMediaApplication</a>	Grants permission to get details of Amazon Chime SIP media application under the administrator's AWS account	Read	<a href="#">sip-media-application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSipMediaApplicationAlexaSkillConfiguration</a>	Grants permission to get Alexa Skill configuration settings for Amazon Chime SIP media application under the administrator's AWS account	Read	<a href="#">sip-media-application*</a>		
<a href="#">GetSipMediaApplicationLoggingConfiguration</a>	Grants permission to get logging configuration settings for Amazon Chime SIP media application under the administrator's AWS account	Read	<a href="#">sip-media-application*</a>		
<a href="#">GetSipRule</a>	Grants permission to get details of Amazon Chime SIP rule under the administrator's AWS account	Read			
<a href="#">GetSpeakerSearchTask</a>	Grants permission to get a speaker search task on the specified Amazon Chime resource	Read	<a href="#">media-pipeline</a> <a href="#">voice-connector</a>		
<a href="#">GetTelephonyLimits</a>	Grants permission to get telephony limits for the AWS account	Read			
<a href="#">GetUser</a>	Grants permission to get details for the specified user ID	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUserActivityReportData</a>	Grants permission to get a summary of user activity on the user details page	Read			
<a href="#">GetUserByEmail</a>	Grants permission to get user details for an Amazon Chime user based on the email address in an Amazon Chime Enterprise or Team account	Read			
<a href="#">GetUserSettings</a>	Grants permission to get user settings related to the specified Amazon Chime user	Read			
<a href="#">GetVoiceConnector</a>	Grants permission to get details for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceConnectorEmergencyCallingConfiguration</a>	Grants permission to get details of the emergency calling configuration for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceConnectorExternalSystemsConfiguration</a>	Grants permission to get the configuration of the external system that is connected with the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVoiceConnectorGroup</a>	Grants permission to get details for the specified Amazon Chime Voice Connector Group	Read			
<a href="#">GetVoiceConnectorLoggingConfiguration</a>	Grants permission to get details of the logging configuration for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceConnectorOrigination</a>	Grants permission to get details of the origination settings for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceConnectorProxy</a>	Grants permission to get details of the proxy configuration for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceConnectorStreamingConfiguration</a>	Grants permission to get details of the streaming configuration for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceConnectorTermination</a>	Grants permission to get details of the termination settings for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVoiceConnectorTerminationHealth</a>	Grants permission to get details of the termination health for the specified Amazon Chime Voice Connector	Read	<a href="#">voice-connector*</a>		
<a href="#">GetVoiceProfile</a>	Grants permission to get a voice profile	Read	<a href="#">voice-profile*</a>		
<a href="#">GetVoiceProfileDomain</a>	Grants permission to get a voice profile domain	Read	<a href="#">voice-profile-domain*</a>		
<a href="#">GetVoiceToneAnalysisTask</a>	Grants permission to get a voice tone analysis task on the specified Amazon Chime resource	Read	<a href="#">media-pipeline</a>		
			<a href="#">voice-connector</a>		
<a href="#">InviteDelegate</a>	Grants permission to send an invitation to accept a request for AWS account delegation for an Amazon Chime account	Write			
<a href="#">InviteUsers</a>	Grants permission to invite as many as 50 users to the specified Amazon Chime account	Write			
<a href="#">InviteUsersFromProvider</a>	Grants permission to invite users from a third party provider to your Amazon Chime account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccountUsageReportData</a>	Grants permission to list Amazon Chime account usage reporting data	List			
<a href="#">ListAccounts</a>	Grants permission to list the Amazon Chime accounts under the administrator's AWS account	List			
<a href="#">ListApiKeys</a>	Grants permission to list the SCIM access keys defined for your Amazon Chime account and Okta configuration	List			
<a href="#">ListAppInstanceAdmins</a>	Grants permission to list administrators in the app instance	List	<a href="#">app-instance*</a>		
			<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
<a href="#">ListAppInstanceBots</a>	Grants permission to list all AppInstanceBots created under a single app instance	List	<a href="#">app-instance-bot*</a>		
<a href="#">ListAppInstanceUserEndpoints</a>	Grants permission to list the endpoints registered for an app instance user	List	<a href="#">app-instance-user*</a>		
<a href="#">ListAppInstanceUsers</a>	Grants permission to list all AppInstanceUsers created under a single app instance	List	<a href="#">app-instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAppInstances</a>	Grants permission to list all Amazon Chime app instances created under a single AWS account	List	<a href="#">app-instance*</a>		
<a href="#">ListAttendeeTags</a>	Grants permission to list the tags applied to an Amazon Chime SDK attendee resource	List	<a href="#">meeting*</a>		
<a href="#">ListAttendees</a>	Grants permission to list up to 100 attendees for a specified Amazon Chime SDK meeting	List	<a href="#">meeting*</a>		
<a href="#">ListAvailableVoiceConnectorRegions</a>	Grants permission to list the available AWS Regions in which you can create an Amazon Chime SDK Voice Connector	List			
<a href="#">ListBots</a>	Grants permission to list the bots associated with the administrator's Amazon Chime Enterprise account	List			
<a href="#">ListCDRBucket</a>	Grants permission to list Call Detail Record S3 buckets	List			s3:ListAllMyBuckets  s3:ListBucket



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCallingRegions</a>	Grants permission to list the calling regions available for the administrator's AWS account	List			
<a href="#">ListChannelBans</a>	Grants permission to list all the users and bots banned from a particular channel	List	<a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a> <a href="#">channel*</a>		
<a href="#">ListChannelFlows</a>	Grants permission to list all the Channel Flows created under a single Chime AppInstance	List	<a href="#">channel-flow*</a>		
<a href="#">ListChannelMemberships</a>	Grants permission to list all channel memberships in a channel	List	<a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a> <a href="#">channel*</a>		
<a href="#">ListChannelMembershipsForAppInstanceUser</a>	Grants permission to list all channels that a particular user or bot is a part of	List	<a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a>		
<a href="#">ListChannelMessages</a>	Grants permission to list all the messages in a channel	Read	<a href="#">app-instance-bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">ListChannelModerators</a>	Grants permission to list all the moderators for a channel	List	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">ListChannels</a>	Grants permission to list all the Channels created under a single Chime AppInstance	List	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
<a href="#">ListChannelsAssociatedWithChannelFlow</a>	Grants permission to list all the Channels associated with a single Chime Channel Flow	List	<a href="#">channel-flow*</a>		
<a href="#">ListChannelsModeratedByAppInstanceUser</a>	Grants permission to list all channels moderated by a user or bot	List	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
<a href="#">ListDelegates</a>	Grants permission to list account delegate information associated with your Amazon Chime account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDirectories</a>	Grants permission to list active Active Directories hosted in the Directory Service of your AWS account	List			
<a href="#">ListDomains</a>	Grants permission to list domains associated with your Amazon Chime account	List			
<a href="#">ListGroup</a> s	Grants permission to list Active Directory or Okta user groups associated with your Amazon Chime Enterprise account	List			
<a href="#">ListMediaCapturePipelines</a>	Grants permission to list media capture pipelines	List			
<a href="#">ListMediaInsightsPipelineConfigurations</a>	Grants permission to list all media insights pipeline configurations	List			
<a href="#">ListMediaPipelineKinesisVideoStreamTools</a>	Grants permission to list media pipelines	List			
<a href="#">ListMediaPipelines</a>	Grants permission to list media pipelines	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMeetingEvents</a>	Grants permission to list all events that occurred for a specified meeting	List			
<a href="#">ListMeetingTags</a>	Grants permission to list the tags applied to an Amazon Chime SDK meeting resource	List	<a href="#">meeting*</a>		
<a href="#">ListMeetings</a>	Grants permission to list up to 100 active Amazon Chime SDK meetings	List			
<a href="#">ListMeetingsReportData</a>	Grants permission to list meetings ended during the specified date range	List			
<a href="#">ListPhoneNumberOrders</a>	Grants permission to list the phone number orders under the administrator's AWS account	List			
<a href="#">ListPhoneNumbers</a>	Grants permission to list the phone numbers under the administrator's AWS account	List			
<a href="#">ListProxySessions</a>	Grants permission to list proxy sessions for the specified Amazon Chime Voice Connector	List	<a href="#">voice-connector*</a>		
<a href="#">ListRoomMemberships</a>	Grants permission to list all room members	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRooms</a>	Grants permission to list rooms	List			
<a href="#">ListSipMediaApplications</a>	Grants permission to list all Amazon Chime SIP media applications under the administrator's AWS account	List			
<a href="#">ListSipRules</a>	Grants permission to list all Amazon Chime SIP rules under the administrator's AWS account	List	<a href="#">sip-media-application</a>		
<a href="#">ListSubChannels</a>	Grants permission to list all the SubChannels under a single Channel	List	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">ListSupportedPhoneNumbers</a>	Grants permission to list the phone number countries supported by the AWS account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags applied to an Amazon Chime resource	Read	<a href="#">app-instance</a>		
			<a href="#">app-instance-bot</a>		
			<a href="#">app-instance-user</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">channel</a>		
			<a href="#">channel-flow</a>		
			<a href="#">media-insights-pipeline-configuration</a>		
			<a href="#">media-pipeline</a>		
			<a href="#">media-pipeline-kinesis-video-stream-pool</a>		
			<a href="#">meeting</a>		
			<a href="#">sip-media-application</a>		
			<a href="#">voice-connector</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">voice-profile-domain</a>		
<a href="#">ListUsers</a>	Grants permission to list the users that belong to the specified Amazon Chime account	List			
<a href="#">ListVoiceConnectorGroups</a>	Grants permission to list the Amazon Chime Voice Connector Groups under the administrator's AWS account	List			
<a href="#">ListVoiceConnectorTerminationCredentials</a>	Grants permission to list the SIP termination credentials for the specified Amazon Chime Voice Connector	List	<a href="#">voice-connector*</a>		
<a href="#">ListVoiceConnectors</a>	Grants permission to list the Amazon Chime Voice Connectors under the administrator's AWS account	List			
<a href="#">ListVoiceProfileDomains</a>	Grants permission to list voice profile domains	List			
<a href="#">ListVoiceProfiles</a>	Grants permission to list voice profiles	List	<a href="#">voice-profile-domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LogoutUser</a>	Grants permission to log out the specified user from all of the devices they are currently logged into	Write			
<a href="#">PutAppInstanceRetentionSettings</a>	Grants permission to enable data retention for the app instance	Write	<a href="#">app-instance*</a>		
<a href="#">PutAppInstanceStreamingConfigurations</a>	Grants permission to configure data streaming for the app instance	Write	<a href="#">app-instance*</a>		
<a href="#">PutAppInstanceUserExpirationSettings</a>	Grants permission to put expiration settings for an AppInstanceUser	Write	<a href="#">app-instance-user*</a>		
<a href="#">PutChannelExpirationSettings</a>	Grants permission to put expiration settings for a channel	Write	<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">PutChannelMembershipPreferences</a>	Grants permission to put the preferences for a channel membership	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutEventsConfiguration</a>	Grants permission to update details for an events configuration for a bot to receive outgoing events	Write			
<a href="#">PutMessagingStreamConfigurations</a>	Grants permission to put the data streaming configurations of an AppInstance	Write	<a href="#">app-instance*</a>		
<a href="#">PutRetentionSettings</a>	Grants permission to create or update retention settings for the specified Amazon Chime account	Write			
<a href="#">PutSipMediaApplicationAlexaSkillConfiguration</a>	Grants permission to update Alexa Skill configuration settings for Amazon Chime SIP media application under the administrator's AWS account	Write	<a href="#">sip-media-application*</a>		
<a href="#">PutSipMediaApplicationLoggingConfiguration</a>	Grants permission to update logging configuration settings for Amazon Chime SIP media application under the administrator's AWS account	Write	<a href="#">sip-media-application*</a>		
<a href="#">PutVoiceConnectorEmergencyCallingConfiguration</a>	Grants permission to add emergency calling configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutVoiceConnectorExternalSystemsConfiguration</a>	Grants permission to update the configuration of the external system that is connected with the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">PutVoiceConnectorLoggingConfiguration</a>	Grants permission to add logging configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		logs:CreateLogDelivery logs:CreateLogGroup logs>DeleteLogDelivery logs:DescribeLogGroups logs:GetLogDelivery logs>ListLogDeliveries

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutVoiceConnectorOrigination</a>	Grants permission to update the origination settings for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">PutVoiceConnectorProxy</a>	Grants permission to add proxy configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">PutVoiceConnectorStreamingConfiguration</a>	Grants permission to add streaming configuration for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		chime:GetMediaInsightsPipelineConfiguration
			<a href="#">media-insights-pipeline-configuration</a>		
<a href="#">PutVoiceConnectorTermination</a>	Grants permission to update the termination settings for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">PutVoiceConnectorTerminationCredentials</a>	Grants permission to add SIP termination credentials for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RedactChannelMessage</a>	Grants permission to redact message content	Write	<a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a> <a href="#">channel*</a>		
<a href="#">RedactConversationMessage</a>	Grants permission to redact the specified Chime conversation Message	Write			
<a href="#">RedactRoomMessage</a>	Grants permission to redacts the specified Chime room Message	Write			
<a href="#">RegenerateSecurityToken</a>	Grants permission to regenerate the security token for the specified bot	Write			
<a href="#">RegisterAppInstanceUserEndpoint</a>	Grants permission to register an endpoint for an app instance user	Write	<a href="#">app-instance-user*</a>		mobiletargeting:GetApp
<a href="#">RenameAccount</a>	Grants permission to modify the account name for your Amazon Chime Enterprise or Team account	Write			
<a href="#">RenewDelegation</a>	Grants permission to renew the delegation request associated with an Amazon Chime account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetAccountResource</a>	Grants permission to reset the account resource in your Amazon Chime account	Write			
<a href="#">ResetPersonalPIN</a>	Grants permission to reset the personal meeting PIN for the specified user on an Amazon Chime account	Write			
<a href="#">RestorePhoneNumber</a>	Grants permission to restore the specified phone number from the deletion queue back to the phone number inventory	Write			
<a href="#">RetrieveDataExports</a>	Grants permission to download the file containing links to all user attachments returned as part of the "Request attachments" action	Read			
<a href="#">SearchAvailablePhoneNumbers</a>	Grants permission to search phone numbers that can be ordered from the carrier	Read			
<a href="#">SearchChannels</a>	Grants permission to search channels that an AppInstanceUser belongs to, or search channels across the AppInstance for an AppInstanceAdmin	List	<a href="#">app-instance-bot*</a>  <a href="#">app-instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendChannelMessage</a>	Grants permission to send a message to a particular channel that the member is a part of	Write	<a href="#">app-instance-bot*</a> <a href="#">app-instance-user*</a> <a href="#">channel*</a>		
<a href="#">StartDataExport</a>	Grants permission to submit the "Request attachments" request	Write			
<a href="#">StartingTranscription</a>	Grants permission to start transcription for a meeting	Write			
<a href="#">StartSpeakerSearchTask</a>	Grants permission to start a speaker search task on the specified Amazon Chime resource	Write	<a href="#">media-pipeline</a> <a href="#">voice-conector</a>		
<a href="#">StartVoiceToneAnalysisTask</a>	Grants permission to start a voice tone analysis task on the specified Amazon Chime resource	Write	<a href="#">media-pipeline</a> <a href="#">voice-conector</a>		
<a href="#">StoppingTranscription</a>	Grants permission to stop transcription for a meeting	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopSpeakerSearchTask</a>	Grants permission to stop a speaker search task on the specified Amazon Chime resource	Write	<a href="#">media-pipeline</a> <a href="#">voice-connector</a>		
<a href="#">StopVoiceToneAnalysisTask</a>	Grants permission to stop a voice tone analysis task on the specified Amazon Chime resource	Write	<a href="#">media-pipeline</a> <a href="#">voice-connector</a>		
<a href="#">SubmitSupportRequest</a>	Grants permission to submit a customer service support request	Write			
<a href="#">SuspendUsers</a>	Grants permission to suspend users from an Amazon Chime Enterprise account	Write			
<a href="#">TagAttendee</a>	Grants permission to apply the specified tags to the specified Amazon Chime SDK attendee	Tagging	<a href="#">meeting*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagMeeting</a>	Grants permission to apply the specified tags to the specified Amazon Chime SDK meeting	Tagging	<a href="#">meeting*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to apply the specified tags to the specified resource (tag-based access controls are only supported on *-chime.<region>.amazonaws.com endpoints)	Tagging	<a href="#">app-instance</a> <a href="#">app-instance-bot</a> <a href="#">app-instance-user</a> <a href="#">channel</a> <a href="#">channel-flow</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">media-insights-pipeline-configuration</a>		
			<a href="#">media-pipeline</a>		
			<a href="#">media-pipeline-kinesis-video-stream-pool</a>		
			<a href="#">meeting</a>		
			<a href="#">sip-media-application</a>		
			<a href="#">voice-conector</a>		
			<a href="#">voice-profile-domain</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UnauthorizeDirectory</a>	Grants permission to unauthorize an Active Directory from your Amazon Chime Enterprise account	Write			
<a href="#">UntagAttendee</a>	Grants permission to untag the specified tags from the specified Amazon Chime SDK attendee	Tagging	<a href="#">meeting*</a>		
<a href="#">UntagMeeting</a>	Grants permission to untag the specified tags from the specified Amazon Chime SDK meeting	Tagging	<a href="#">meeting*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to untag the specified tags from the specified resource (tag-based access controls are only supported on *-chime.<region>.amazonaws.com endpoints)	Tagging	<a href="#">app-instance</a>		
			<a href="#">app-instance-bot</a>		
			<a href="#">app-instance-user</a>		
			<a href="#">channel</a>		
			<a href="#">channel-flow</a>		
			<a href="#">media-insights-pipeline-configuration</a>		
			<a href="#">media-pipeline</a>		
			<a href="#">media-pipeline-kinesis-video-stream-pool</a>		
			<a href="#">meeting</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">sip-media-application</a>		
			<a href="#">voice-connector</a>		
			<a href="#">voice-profile-domain</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccount</a>	Grants permission to update account details for the specified Amazon Chime account	Write			
<a href="#">UpdateAccountOpenIdConfig</a>	Grants permission to update the OpenIdConfig attributes for your Amazon Chime account	Write			
<a href="#">UpdateAccountResource</a>	Grants permission to update the account resource in your Amazon Chime account	Write			
<a href="#">UpdateAccountSettings</a>	Grants permission to update the settings for the specified Amazon Chime account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAppInstance</a>	Grants permission to update AppInstance metadata	Write	<a href="#">app-instance*</a>		
<a href="#">UpdateAppInstanceBot</a>	Grants permission to update the details for an AppInstanceBot	Write	<a href="#">app-instance-bot*</a>		
<a href="#">UpdateAppInstanceUser</a>	Grants permission to update the details for an AppInstanceUser	Write	<a href="#">app-instance-user*</a>		
<a href="#">UpdateAppInstanceUserEndpoint</a>	Grants permission to update an endpoint registered for an app instance user	Write	<a href="#">app-instance-user*</a>		
<a href="#">UpdateAttendeeCapabilities</a>	Grants permission to the capabilities that you want to update	Write	<a href="#">meeting*</a>		
<a href="#">UpdateBot</a>	Grants permission to update the status of the specified bot	Write			
<a href="#">UpdateCDRSettings</a>	Grants permission to update your Call Detail Record S3 bucket	Write			s3:CreateBucket s3>DeleteBucket s3:ListAllMyBuckets
<a href="#">UpdateChannel</a>	Grants permission to update a channel's attributes	Write	<a href="#">app-instance-bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">UpdateChannelFlow</a>	Grants permission to update a channel flow	Write	<a href="#">channel-flow*</a>		
<a href="#">UpdateChannelMessage</a>	Grants permission to update the content of a message	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">UpdateChannelReadMarker</a>	Grants permission to set the timestamp to the point when a user last read messages in a channel	Write	<a href="#">app-instance-bot*</a>		
			<a href="#">app-instance-user*</a>		
			<a href="#">channel*</a>		
<a href="#">UpdateGlobalSettings</a>	Grants permission to update the global settings related to Amazon Chime for the AWS account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMediaInsightsPipelineConfiguration</a>	Grants permission to update the status of a media insights pipeline configuration	Write	<a href="#">media-insights-pipeline-configuration*</a>		chime:ListVoiceConnectors  iam:PassRole  kinesis:DescribeStream  s3:ListBucket
<a href="#">UpdateMediaInsightsPipelineStatus</a>	Grants permission to update the status of a media insights pipeline	Write	<a href="#">media-pipeline*</a>		
<a href="#">UpdateMediaPipelineKinesisVideoStreamPool</a>	Grants permission to update kinesis video stream pool	Write	<a href="#">media-pipeline-kinesis-video-stream-pool*</a>		
<a href="#">UpdatePhoneNumber</a>	Grants permission to update phone number details for the specified phone number	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePhoneNumberSettings</a>	Grants permission to update phone number settings related to Amazon Chime for the AWS account	Write			
<a href="#">UpdateProxySession</a>	Grants permission to update a proxy session for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">UpdateRoom</a>	Grants permission to update a room	Write			
<a href="#">UpdateRoomMembership</a>	Grants permission to update room membership role	Write			
<a href="#">UpdateSipMediaApplication</a>	Grants permission to update properties of Amazon Chime SIP media application under the administrator's AWS account	Write	<a href="#">sip-media-application*</a>		
<a href="#">UpdateSipMediaApplicationCall</a>	Grants permission to update an Amazon Chime SIP media application call under the administrator's AWS account	Write	<a href="#">sip-media-application*</a>		
<a href="#">UpdateSipRule</a>	Grants permission to update properties of Amazon Chime SIP rule under the administrator's AWS account	Write	<a href="#">sip-media-application</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSupportedLicenses</a>	Grants permission to update the supported license tiers available for users in your Amazon Chime account	Write			
<a href="#">UpdateUser</a>	Grants permission to update user details for a specified user ID	Write			
<a href="#">UpdateUserLicenses</a>	Grants permission to update the licenses for your Amazon Chime users	Write			
<a href="#">UpdateUserSettings</a>	Grants permission to update user settings related to the specified Amazon Chime user	Write			
<a href="#">UpdateVoiceConnector</a>	Grants permission to update Amazon Chime Voice Connector details for the specified Amazon Chime Voice Connector	Write	<a href="#">voice-connector*</a>		
<a href="#">UpdateVoiceConnectorGroup</a>	Grants permission to update Amazon Chime Voice Connector Group details for the specified Amazon Chime Voice Connector Group	Write	<a href="#">voice-connector</a>		
<a href="#">UpdateVoiceProfile</a>	Grants permission to update a voice profile	Write	<a href="#">voice-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateVoiceProfileDomain</a>	Grants permission to update a voice profile domain	Write	<a href="#">voice-profile-domain*</a>		
<a href="#">ValidateAccountResource</a>	Grants permission to validate the account resource in your Amazon Chime account	Read			
<a href="#">ValidateE911Address</a>	Grants permission to validate an address to be used for 911 calls made with Amazon Chime Voice Connectors	Read			

## Resource types defined by Amazon Chime

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">meeting</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:meeting/\${MeetingId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">app-instance</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:app-instance/\${AppInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">app-instance-user</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:app-instance/\${AppInstanceId}/user/\${AppInstanceUserId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">app-instance-bot</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:app-instance/\${AppInstanceId}/bot/\${AppInstanceBotId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">channel</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:app-instance/\${AppInstanceId}/channel/\${ChannelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">channel-flow</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:app-instance/\${AppInstanceId}/channel-flow/\${ChannelFlowId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">media-pipeline</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:media-pipeline/\${MediaPipelineId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">media-insights-pipeline-configuration</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:media-insights-pipeline-configuration/\${ConfigurationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">media-pipeline-kinesis-video-stream-pool</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:media-pipeline-kinesis-video-stream-pool/\${PoolName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">voice-profile-domain</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:voice-profile-domain/\${VoiceProfileDomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">voice-profile</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:voice-profile/\${VoiceProfileId}	
<a href="#">voice-connector</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:vc/\${VoiceConnectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sip-media-application</a>	arn:\${Partition}:chime:\${Region}:\${AccountId}:sma/\${SipMediaApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Chime

Amazon Chime defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for AWS Clean Rooms

AWS Clean Rooms (service prefix: `cleanrooms`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Clean Rooms](#)
- [Resource types defined by AWS Clean Rooms](#)
- [Condition keys for AWS Clean Rooms](#)

## Actions defined by AWS Clean Rooms

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetCollaborationAnalysisTemplate</a>	Grants permission to view details of analysisTemplates associated to the collaboration	Read	<a href="#">analystemplate*</a>		cleanrooms:GetCollaborationAnalysisTemplate
			<a href="#">collaboration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetSchema</a>	Grants permission to view details for schemas	Read	<a href="#">collaboration*</a>		cleanrooms:GetSchema
			<a href="#">configuretableassociation</a>		
			<a href="#">idmappingtable</a>		
<a href="#">BatchGetSchemaAnalysisRule</a>	Grants permission to view analysis rules associated with schemas	Read	<a href="#">collaboration*</a>		cleanrooms:GetSchema
			<a href="#">configuretableassociation</a>		
			<a href="#">idmappingtable</a>		
<a href="#">CreateAnalysisTemplate</a>	Grants permission to create a new analysis template	Write	<a href="#">analysis-template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">membership*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCollaboration</a>	Grants permission to create a new collaboration, a shared data collaboration environment	Write	<a href="#">collaboration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCollaborationChangeRequest</a>	Grants permission to create a change request in a collaboration	Write	<a href="#">collaboration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfiguredAudienceModelAssociation</a>	Grants permission to link a Cleanrooms ML configured audience model with a collaboration by creating a new association	Write	<a href="#">configureaudiencemodelassociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	cleanroomsml:GetConfiguredAudienceModel  cleanroomsml:GetConfiguredAudienceModelPolicy  cleanroomsml:PutConfiguredAudienceModelPolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">membership*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfiguredTable</a>	Grants permission to create a new configured table	Write	<a href="#">configure*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	athena:GetTableMetadata glue:BatchGetPartition glue:GetDatabase glue:GetDatabases glue:GetPartition glue:GetPartitions glue:GetSchemaVersion glue:GetTable glue:GetTables
<a href="#">CreateConfiguredTableAnalysisRule</a>	Grants permission to create an analysis rule for a configured table	Write	<a href="#">configure*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfigurableTableAssociation</a>	Grants permission to link a configured table with a collaboration by creating a new association	Write	<a href="#">configuretable*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole
			<a href="#">configuretableassociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">memberships*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfigurableTableAssociationAnalysisRule</a>	Grants permission to create an analysis rule for a configured table association	Write	<a href="#">configuretableassociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIdMappingTable</a>	Grants permission to link an id mapping workflow with a collaboration by creating a new id mapping table	Write	<a href="#">idmappingtable*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	entityresolution:AddPolicyStatement  entityresolution:GetIdMappingWorkflow
			<a href="#">membership*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIdNamespaceAssociation</a>	Grants permission to link an AWS Entity Resolution Id Namespace with a collaboration by creating a new association	Write	<a href="#">idnamespaceassociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	entityresolution:AddPolicyStatement  entityresolution:GetIdNamespace
			<a href="#">membership*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMembership</a>	Grants permission to join collaborations by creating a membership	Write	<a href="#">collaboration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole logs:CreateLogDelivery logs:CreateLogGroup logs>DeleteLogDelivery logs:DescribeLogGroups logs:DescribeResourcePolicies logs:GetLogDelivery logs:ListLogDeliveries

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					logs:PutResourcePolicy logs:UpdateLogDelivery s3:GetBucketLocation
			<a href="#">membership*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePrivacyBudgetTemplate</a>	Grants permission to create a new privacy budget template	Write	<a href="#">membership*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAnalysisTemplate</a>	Grants permission to delete an existing analysis template	Write	<a href="#">privacybudgettemplate*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCollaboration</a>	Grants permission to delete an existing collaboration	Write	<a href="#">collaboration*</a>		cleanrooms-ml:DeleteConfiguredAudienceModelPolicy  cleanrooms-ml:GetConfiguredAudienceModelPolicy  cleanrooms-ml:PutConfiguredAudienceModelPolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConfiguredAudienceModelAssociation</a>	Grants permission to delete an existing configured audience model association	Write	<a href="#">configureaudiencemodelassociation*</a>		cleanroom-s-ml:DeleteConfiguredAudienceModelPolicy  cleanroom-s-ml:GetConfiguredAudienceModelPolicy  cleanroom-s-ml:PutConfiguredAudienceModelPolicy
<a href="#">DeleteConfiguredTable</a>	Grants permission to delete a configured table	Write	<a href="#">configurehtable*</a>		
<a href="#">DeleteConfiguredTableAnalysisRule</a>	Grants permission to delete an existing analysis rule	Write	<a href="#">configurehtable*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConfiguredTableAssociation</a>	Grants permission to remove a configured table association from a collaboration	Write	<a href="#">configuretableassociation*</a>		
<a href="#">DeleteConfiguredTableAssociationAnalysisRule</a>	Grants permission to delete an existing configured table association analysis rule	Write	<a href="#">configuretableassociation*</a>		
<a href="#">DeleteIdMappingTable</a>	Grants permission to remove an id mapping table from a collaboration	Write	<a href="#">idmappingtable*</a>		entityresolution:DeletePolicyStatement
			<a href="#">memberships*</a>		
<a href="#">DeleteIdNamespaceAssociation</a>	Grants permission to remove an Id Namespace Association from a collaboration	Write	<a href="#">idnamespaceassociation*</a>		entityresolution:DeletePolicyStatement
			<a href="#">memberships*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMember</a>	Grants permission to delete members from a collaboration	Write	<a href="#">collaboration*</a>		cleanrooms-ml:DeleteConfiguredAudienceModelPolicy  cleanrooms-ml:GetConfiguredAudienceModelPolicy  cleanrooms-ml:PutConfiguredAudienceModelPolicy
<a href="#">DeleteMembership</a>	Grants permission to leave collaborations by deleting a membership	Write	<a href="#">membership*</a>		
<a href="#">DeletePrivacyBudgetTemplate</a>	Grants permission to delete an existing privacy budget template	Write	<a href="#">privacybudgettemplate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAnalysisTemplate</a>	Grants permission to view details for an analysis template	Read	<a href="#">analystemplate*</a>		
<a href="#">GetCollaboration</a>	Grants permission to view details for a collaboration	Read	<a href="#">collaboration*</a>		
<a href="#">GetCollaborationAnalysisTemplate</a>	Grants permission to view details for an analysis template within a collaboration	Read	<a href="#">analystemplate*</a> <a href="#">collaboration*</a>		
<a href="#">GetCollaborationChangeRequest</a>	Grants permission to get a change request in a collaboration	Read	<a href="#">collaboration*</a>		
<a href="#">GetCollaborationConfiguredAudienceModelAssociation</a>	Grants permission to view details for a configured audience model association within a collaboration	Read	<a href="#">collaboration*</a> <a href="#">configureaudiencemodelassociation*</a>		
<a href="#">GetCollaborationIdNamespaceAssociation</a>	Grants permission to get id namespace association within a collaboration	Read	<a href="#">collaboration*</a> <a href="#">idnamespaceassociation*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCollaborationPrivacyBudgetTemplate</a>	Grants permission to view details for a privacy budget template within a collaboration	Read	<a href="#">collaboration*</a> <a href="#">privacybudgettemplate*</a>		
<a href="#">GetConfiguredAudienceModelAssociation</a>	Grants permission to view details for a configured audience model association	Read	<a href="#">configureaudiencemodelassociation*</a>		
<a href="#">GetConfiguredTable</a>	Grants permission to view details for a configured table	Read	<a href="#">configuredtable*</a>		
<a href="#">GetConfiguredTableAnalysisRule</a>	Grants permission to view analysis rules for a configured table	Read	<a href="#">configuredtable*</a>		
<a href="#">GetConfiguredTableAssociation</a>	Grants permission to view details for a configured table association	Read	<a href="#">configuredtableassociation*</a>		
<a href="#">GetConfiguredTableAssociationAnalysisRule</a>	Grants permission to view analysis rules for a configured table association	Read	<a href="#">configuredtableassociation*</a>		
<a href="#">GetIdMappingTable</a>	Grants permission to view details of an id mapping table	Read	<a href="#">idmappingtable*</a> <a href="#">membershi</a> <a href="#">p*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdNameSpaceAssociation</a>	Grants permission to view details of an id namespace association	Read	<a href="#">idnamespaceassociation*</a>		entityresolution:GetIdNamespace
			<a href="#">membership*</a>		
<a href="#">GetMembership</a>	Grants permission to view details about a membership	Read	<a href="#">membership*</a>		
<a href="#">GetPrivacyBudgetTemplate</a>	Grants permission to view details for a privacy budget template	Read	<a href="#">privacybudgettemplate*</a>		
<a href="#">GetProtectedJob</a>	Grants permission to view a protected job	Read	<a href="#">membership*</a>		
<a href="#">GetProtectedQuery</a>	Grants permission to view a protected query	Read	<a href="#">membership*</a>		
<a href="#">GetSchema</a>	Grants permission to view details for a schema	Read	<a href="#">collaboration*</a>		
			<a href="#">configuretableassociation*</a>		
<a href="#">GetSchemaAnalysisRule</a>	Grants permission to view analysis rules associated with a schema	Read	<a href="#">collaboration*</a>		cleanrooms:GetSchema

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">configuretableassociation*</a>		
<a href="#">ListAnalysisTemplates</a>	Grants permission to list available analysis templates	List	<a href="#">analysis-template*</a>		
			<a href="#">membership*</a>		
<a href="#">ListCollaborationAnalysisTemplates</a>	Grants permission to list available analysis templates within a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListCollaborationChangeRequests</a>	Grants permission to list change requests in a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListCollaborationConfiguredAudienceModelAssociations</a>	Grants permission to list available configured audience model association within a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListCollaborationIdNamespaceAssociations</a>	Grants permission to list id namespace within a collaboration	List	<a href="#">collaboration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCollaborationPrivacyBudgetTemplates</a>	Grants permission to list available privacy budget templates within a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListCollaborationPrivacyBudgets</a>	Grants permission to list privacy budgets within a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListCollaborations</a>	Grants permission to list available collaborations	List			
<a href="#">ListConfiguredAudienceModelAssociations</a>	Grants permission to list available configured audience model associations for a membership	List	<a href="#">configuredaudiencemodelassociation*</a>		
			<a href="#">membership*</a>		
<a href="#">ListConfiguredTableAssociations</a>	Grants permission to list available configured table associations for a membership	List	<a href="#">configuredtableassociation*</a>		
			<a href="#">membership*</a>		
<a href="#">ListConfiguredTables</a>	Grants permission to list available configured tables	List			
<a href="#">ListIdMappingTables</a>	Grants permission to list available id mapping tables for a membership	List	<a href="#">idmappingtable*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">memberships*</a>		
<a href="#">ListIdNamespacesAssociations</a>	Grants permission to list entity resolution data associations for a membership	List	<a href="#">idnamespacesassociation*</a>		
			<a href="#">memberships*</a>		
<a href="#">ListMembers</a>	Grants permission to list the members of a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListMemberships</a>	Grants permission to list available memberships	List			
<a href="#">ListPrivacyBudgetTemplates</a>	Grants permission to list available privacy budget templates	List	<a href="#">memberships*</a>		
			<a href="#">privacybudgettemplate*</a>		
<a href="#">ListPrivacyBudgets</a>	Grants permission to list available privacy budgets	List	<a href="#">memberships*</a>		
<a href="#">ListProtectedJobs</a>	Grants permission to list protected jobs	List	<a href="#">memberships*</a>		
<a href="#">ListProtectedQueries</a>	Grants permission to list protected queries	List	<a href="#">memberships*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSchemas</a>	Grants permission to view available schemas for a collaboration	List	<a href="#">collaboration*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	List	<a href="#">analystemplate</a>		
			<a href="#">collaboration</a>		
			<a href="#">configureaudiencemodelassociation</a>		
			<a href="#">configuretable</a>		
			<a href="#">configuretableassociation</a>		
			<a href="#">membership</a>		
			<a href="#">privacybudgettemplate</a>		
<a href="#">PassCollaboration</a> [permission only]	Grants permission to access a collaboration in the context of Clean Rooms ML custom models	Read	<a href="#">collaboration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PassMembership</a> [permission only]	Grants permission to access a membership in the context of Clean Rooms ML custom models	Read	<a href="#">membership*</a>		
<a href="#">PopulateIdMappingTable</a>	Grants permission to start an Id Mapping Job in AWS Entity Resolution to generate id mapping results in cleanrooms collaboration.	Write	<a href="#">idmappingtable*</a>		entityresolution:GetIdMappingWorkflow
<a href="#">PreviewPrivacyImpact</a>	Grants permission to preview privacy budget template settings	Read	<a href="#">membership*</a>		
<a href="#">StartProtectedJob</a>	Grants permission to start protected jobs	Write	<a href="#">membership*</a>		cleanrooms:GetCollaborationAnalysisTemplate  cleanrooms:GetSchema
			<a href="#">analystemplate</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">configuretableassociation</a>		
<a href="#">StartProtectedQuery</a>	Grants permission to start protected queries	Write	<a href="#">memberships*</a>		cleanrooms:GetCollaborationAnalysisTemplate  cleanrooms:GetSchema  s3:GetBucketLocation  s3:ListBucket  s3:PutObject
			<a href="#">analysis-template</a>		
			<a href="#">configuretableassociation</a>		
			<a href="#">idmappingtable</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">analystemplate</a>		
			<a href="#">collaboration</a>		
			<a href="#">configureaudienceassociation</a>		
			<a href="#">configuretable</a>		
			<a href="#">configuretableassociation</a>		
			<a href="#">idmappingtable</a>		
			<a href="#">idnamespaceassociation</a>		
			<a href="#">membership</a>		
			<a href="#">privacybudgettemplate</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">analysis-template</a> <a href="#">collaboration</a> <a href="#">configure-audience-model-association</a> <a href="#">configure-dtable</a> <a href="#">configure-dtable-association</a> <a href="#">id-mapping-table</a> <a href="#">id-namespace-association</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">memberships</a>		
			<a href="#">privacybudgettemplate</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAnalysisTemplate</a>	Grants permission to update details of the analysis template	Write	<a href="#">analysistemplate*</a>		
<a href="#">UpdateCollaboration</a>	Grants permission to update details of the collaboration	Write	<a href="#">collaboration*</a>		
<a href="#">UpdateCollaborationChangeRequest</a>	Grants permission to update a change request in a collaboration	Write	<a href="#">collaboration*</a>		
<a href="#">UpdateConfiguredAudienceModelAssociation</a>	Grants permission to update a configured audience model association	Write	<a href="#">configureaudiencemodelassociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConfiguredTable</a>	Grants permission to update an existing configured table	Write	<a href="#">configure-dtable*</a>		athena:GetTableMetadata  cleanrooms:UpdateConfiguredTableAllowedColumns  cleanrooms:UpdateConfiguredTableReference  glue:BatchGetPartition  glue:GetDatabase  glue:GetDatabases  glue:GetPartition  glue:GetPartitions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					glue:GetSchemaVersion glue:GetTable glue:GetTables
<a href="#">UpdateConfiguredTableAllowedColumns</a> [permission only]	Grants permission to update the allowed columns of an existing configured table	Write	<a href="#">configure-dtable*</a>		
<a href="#">UpdateConfiguredTableAnalysisRule</a>	Grants permission to update analysis rules for a configured table	Write	<a href="#">configure-dtable*</a>		
<a href="#">UpdateConfiguredTableAssociation</a>	Grants permission to update a configured table association	Write	<a href="#">configure-dtableassociation*</a>		iam:PassRole
<a href="#">UpdateConfiguredTableAssociationAnalysisRule</a>	Grants permission to update analysis rules for a configured table association	Write	<a href="#">configure-dtableassociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConfiguredTableReference</a> [permission only]	Grants permission to update the table reference of an existing configured table	Write	<a href="#">configure-dtable*</a>		
<a href="#">UpdateIdMappingTable</a>	Grants permission to update an id mapping table	Write	<a href="#">idmapping-table*</a>		
<a href="#">UpdateIdNamespaceAssociation</a>	Grants permission to update a entity resolution input association	Write	<a href="#">idnamespaceassociation*</a>		entityresolution:GetIdNamespace
			<a href="#">memberships*</a>		
			<a href="#">memberships*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMembership</a>	Grants permission to update details of a membership	Write	<a href="#">membership*</a>		iam:PassRole  logs:CreateLogDelivery  logs:CreateLogGroup  logs>DeleteLogDelivery  logs:DescribeLogGroups  logs:DescribeResourcePolicies  logs:GetLogDelivery  logs:ListLogDeliveries

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					logs:PutResourcePolicy logs:UpdateLogDelivery s3:GetBucketLocation
<a href="#">UpdatePrivacyBudgetTemplate</a>	Grants permission to update details of the privacy budget template	Write	<a href="#">privacybudgettemplate*</a>		
<a href="#">UpdateProtectedJob</a>	Grants permission to update protected jobs	Write	<a href="#">memberships*</a>		
<a href="#">UpdateProtectedQuery</a>	Grants permission to update protected queries	Write	<a href="#">memberships*</a>		

## Resource types defined by AWS Clean Rooms

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">analysis template</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}/analysis-template/\${AnalysisTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">collaboration</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:collaboration/\${CollaborationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configure audience model association</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}/configured-audience-model-association/\${ConfiguredAudienceModelAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configure dtable</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:configured-table/\${ConfiguredTableId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configure dtable association</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}/configured-table-association/\${ConfiguredTableAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">id mapping table</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}/id-mapping-table/\${IdMappingTableId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">id namespace association</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}/id-namespace-association/\${IdNamespaceAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">membership</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">privacybudgettemplate</a>	arn:\${Partition}:cleanrooms:\${Region}:\${Account}:membership/\${MembershipId}/privacybudgettemplate/\${PrivacyBudgetTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Clean Rooms

AWS Clean Rooms defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Clean Rooms ML

AWS Clean Rooms ML (service prefix: `cleanrooms-ml`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Clean Rooms ML](#)
- [Resource types defined by AWS Clean Rooms ML](#)
- [Condition keys for AWS Clean Rooms ML](#)

## Actions defined by AWS Clean Rooms ML

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelTrainedModel</a>	Grants permission to cancel a trained model	Write	<a href="#">TrainedModel*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelTrainedModelInferenceJob</a>	Grants permission to cancel a trained model inference job	Write	<a href="#">TrainedModelInferenceJob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAudienceModel</a>	Grants permission to create an audience model	Write	<a href="#">trainingdataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfiguredAudienceModel</a>	Grants permission to create a configured audience model	Write	<a href="#">audiencemodel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfiguredModelAlgorithm</a>	Grants permission to create a configured model algorithm	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfiguredModelAlgorithmAssociation</a>	Grants permission to create a configured model algorithm association	Write	<a href="#">ConfigureModelAlgorithm*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMLInputChannel</a>	Grants permission to create an ML input channel	Write	<a href="#">ConfigureModelAlgorithmAssociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrainedModel</a>	Grants permission to create a trained model	Write	<a href="#">ConfigureModelAlgorithmAssociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTrainingDataset</a>	Grants permission to create a training dataset, or seed audience. In Clean Rooms ML, the TrainingDataset is metadata that points to a Glue table, which is read only during AudienceModel creation	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAudienceGenerationJob</a>	Grants permission to delete the specified audience generation job, and removes all data associated with the job	Write	<a href="#">audiencegenerationjob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAudienceModel</a>	Grants permission to delete the specified audience generation job, and removes all data associated with the job	Write	<a href="#">audiencemodel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConfiguredAudienceModel</a>	Grants permission to delete the specified configured audience model	Write	<a href="#">configureaudiencemodel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConfiguredAudienceModelPolicy</a>	Grants permission to delete the specified configured audience model policy	Write	<a href="#">configureaudiencemodel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConfiguredModelAlgorithm</a>	Grants permission to delete a configured model algorithm	Write	<a href="#">ConfigureModelAlgorithm*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConfiguredModelAlgorithmAssociation</a>	Grants permission to delete a configured model algorithm association	Write	<a href="#">ConfigureModelAlgorithmAssociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteMLConfiguration</a>	Grants permission to delete an ML configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMLInputChannelData</a>	Grants permission to delete all data associated with the ML input channel	Write	<a href="#">MLInputChannel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteTrainedModelOutput</a>	Grants permission to delete all output associated with the trained model	Write	<a href="#">TrainedModel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteTrainingDataset</a>	Grants permission to delete a training dataset	Write	<a href="#">trainingdataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAudienceGenerationJob</a>	Grants permission to return information about an audience generation job	Read	<a href="#">audiencegenerationjob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetAudienceModel</a>	Grants permission to return information about an audience model	Read	<a href="#">audiencemodel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetCollaborationConfiguredModelAlgorithmAssociation</a>	Grants permission to return information about a configured model algorithm association created by any member in the collaboration	Read	<a href="#">ConfigureModelAlgorithmAssociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">GetCollaborationMLInputChannel</a>	Grants permission to return information about an ML input channel created by any member in the collaboration	Read	<a href="#">MLInputChannel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">GetCollaborationTrainedModel</a>	Grants permission to return information about a trained model created by any member in the collaboration	Read	<a href="#">TrainedModel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">GetConfiguredAudienceModel</a>	Grants permission to return information about a configured audience model	Read	<a href="#">configureaudiencemodel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetConfiguredAudienceModelPolicy</a>	Grants permission to return information about a configured audience model policy	Read	<a href="#">configureaudiencemodel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetConfiguredModelAlgorithm</a>	Grants permission to return information about a configured model algorithm	Read	<a href="#">ConfiguredModelAlgorithm*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetConfiguredModelAlgorithmAssociation</a>	Grants permission to return information about a configured model algorithm association	Read	<a href="#">ConfiguredModelAlgorithmAssociation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMLConfiguration</a>	Grants permission to return information about an ML configuration	Read		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetMLInputChannel</a>	Grants permission to return information about an ML input channel	Read	<a href="#">MLInputChannel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetTrainedModel</a>	Grants permission to return information about a trained model	Read	<a href="#">TrainedModel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetTrainedModelInferenceJob</a>	Grants permission to return information about a trained model inference job	Read	<a href="#">TrainedModelInferenceJob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetTrainingDataset</a>	Grants permission to return information about a training dataset	Read	<a href="#">trainingdataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListAudienceExportJobs</a>	Grants permission to return a list of the audience export jobs	List	<a href="#">audiencegenerationjob</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListAudienceGenerationJobs</a>	Grants permission to return a list of audience generation jobs	List	<a href="#">configureaudiencemodel</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListAudienceModels</a>	Grants permission to return a list of audience models	List			
<a href="#">ListCollaborationConfiguredModelAlgorithmAssociations</a>	Grants permission to return a list of configured model algorithms created by any member in the collaboration	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cleanrooms-ml:CollaborationId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCollaborationMLInputChannels</a>	Grants permission to return a list of ML input channels created by any member in the collaboration	List		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">ListCollaborationTrainedModelExportJobs</a>	Grants permission to return a list of trained model export jobs started by any member in the collaboration	List	<a href="#">TrainedModel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cleanrooms-ml:CollaborationId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCollaborationTrainedModelInferenceJobs</a>	Grants permission to return a list of trained model inference jobs started by any member in the collaboration	List		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">ListCollaborationTrainedModels</a>	Grants permission to return a list of trained models created by any member in the collaboration	List		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">ListConfiguredAudienceModels</a>	Grants permission to return a list of configured audience models	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConfiguredModelAlgorithmAssociations</a>	Grants permission to return a list of configured model algorithm associations	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListConfiguredModelAlgorithms</a>	Grants permission to return a list of configured model algorithms	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListMLInputChannels</a>	Grants permission to return a list of ML input channels	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for a provided resource	List	<a href="#">audiencegenerationjob</a>		
			<a href="#">audiencemodel</a>		
			<a href="#">configureaudiencemodel</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">trainingdataset</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTrainedModelInferenceJobs</a>	Grants permission to return a list of trained model inference jobs	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListTrainedModelVersions</a>	Grants permission to return a list of trained model versions	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListTrainedModels</a>	Grants permission to return a list of trained models	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrainingDatasets</a>	Grants permission to return a list of training datasets	List			
<a href="#">PutConfiguredAudienceModelPolicy</a>	Grants permission to create or update the resource policy for a configured audience model	Permissions management	<a href="#">configureaudiencemodel*</a>		
<a href="#">PutMLConfiguration</a>	Grants permission to put an ML configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartAudienceExportJob</a>	Grants permission to export an audience of a specified size after you have generated an audience	Write	<a href="#">audiencegenerationjob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartAudienceGenerationJob</a>	Grants permission to start the audience generation job	Write	<a href="#">configureaudiencemodel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cleanrooms-ml:CollaborationId</a>	
<a href="#">StartTrainedModelExportJob</a>	Grants permission to start a trained model export job	Write	<a href="#">TrainedModel*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartTrainedModelInferenceJob</a>	Grants permission to start a trained model inference job	Write	<a href="#">ConfigureModelAlgorithmAssociation*</a>		
			<a href="#">MLInputChannel*</a>		
			<a href="#">TrainedModel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to tag a specific resource	Tagging	<a href="#">ConfigureModelAlgorithm</a> <a href="#">ConfigureModelAlgorithmAssociation</a> <a href="#">MLInputChannel</a> <a href="#">TrainedModel</a> <a href="#">TrainedModelInferenceJob</a> <a href="#">audiencegenerationjob</a> <a href="#">audiencemodel</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">configureaudiencemodel</a>		
			<a href="#">trainingdataset</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a specific resource	Tagging	<a href="#">ConfigureModelAlgorithm</a>		
			<a href="#">ConfigureModelAlgorithmAssociation</a>		
			<a href="#">MLInputChannel</a>		
			<a href="#">TrainedModel</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">TrainedModelInferenceJob</a>		
			<a href="#">audiencegenerationjob</a>		
			<a href="#">audiencemodel</a>		
			<a href="#">configureaudiencemodel</a>		
			<a href="#">trainingdataset</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateConfiguredAudienceModel</a>	Grants permission to update a configured audience model.	Write	<a href="#">configureaudiencemodel*</a>		
			<a href="#">audiencemodel</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Clean Rooms ML

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">trainingdataset</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:training-dataset/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">audiencemodel</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:audience-model/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configureaudiencemodel</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:configured-audience-model/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">audiencegenerationjob</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:audience-generation-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ConfigureModelAlgorithm</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:configured-model-algorithm/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ConfigureModelAlgorithmAssociation</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:membership/\${MembershipId}/configured-model-algorithm-association/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">MLInputChannel</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:membership/\${MembershipId}/ml-input-channel/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TrainedModel</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:membership/\${MembershipId}/trained-model/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TrainedModelInferenceJob</a>	arn:\${Partition}:cleanrooms-ml:\${Region}:\${Account}:membership/\${MembershipId}/trained-model-inference-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Clean Rooms ML

AWS Clean Rooms ML defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">cleanrooms-ml:CollaborationId</a>	Filters access by Clean rooms collaboration id	String

## Actions, resources, and condition keys for AWS Cloud Control API

AWS Cloud Control API (service prefix: `cloudformation`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Cloud Control API](#)
- [Resource types defined by AWS Cloud Control API](#)
- [Condition keys for AWS Cloud Control API](#)

## Actions defined by AWS Cloud Control API

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelResourceRequest</a>	Grants permission to cancel resource requests in your account	Write			
<a href="#">CreateResource</a>	Grants permission to create resources in your account	Write			
<a href="#">DeleteResource</a>	Grants permission to delete resources in your account	Write			
<a href="#">GetResource</a>	Grants permission to get resources in your account	Read			
<a href="#">GetResourceRequestStatus</a>	Grants permission to get resource requests in your account	Read			
<a href="#">ListResourceRequests</a>	Grants permission to list resource requests in your account	Read			
<a href="#">ListResources</a>	Grants permission to list resources in your account	Read			
<a href="#">UpdateResource</a>	Grants permission to update resources in your account	Write			

## Resource types defined by AWS Cloud Control API

AWS Cloud Control API does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Cloud Control API, specify "Resource": "\*" in your policy.

## Condition keys for AWS Cloud Control API

Cloud Control API has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Cloud Directory

Amazon Cloud Directory (service prefix: `clouddirectory`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Cloud Directory](#)
- [Resource types defined by Amazon Cloud Directory](#)
- [Condition keys for Amazon Cloud Directory](#)

## Actions defined by Amazon Cloud Directory

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of




access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddFacetToObject</a>	Grants permission to add a new Facet to an object	Write	<a href="#">directory</a> * -		
<a href="#">ApplySchema</a>	Grants permission to copy input published schema into Directory with same name and version as that of published schema	Write	<a href="#">directory</a> * - <a href="#">publishedSchema*</a>		
<a href="#">AttachObject</a>	Grants permission to attach an existing object to another existing object	Write	<a href="#">directory</a> * -		
<a href="#">AttachPolicy</a>	Grants permission to attach a policy object to any other object	Write	<a href="#">directory</a> * -		
<a href="#">AttachToIndex</a>	Grants permission to attach the specified object to the specified index	Write	<a href="#">directory</a> * -		
<a href="#">AttachTypedLink</a>	Grants permission to attach a typed link b/w a source & target object reference	Write	<a href="#">directory</a> * -		
<a href="#">BatchRead</a>	Grants permission to perform all the read operations in a batch. Each individual operation inside BatchRead needs to be granted permissions explicitly	Read	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchWrite</a>	Grants permission to perform all the write operations in a batch. Each individual operation inside BatchWrite needs to be granted permissions explicitly	Write	<a href="#">directory</a> * -		
<a href="#">CreateDirectory</a>	Grants permission to create a Directory by copying the published schema into the directory	Write	<a href="#">publishedSchema*</a>		
<a href="#">CreateFacet</a>	Grants permission to create a new Facet in a schema	Write	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
<a href="#">CreateIndex</a>	Grants permission to create an index object	Write	<a href="#">directory</a> * -		
<a href="#">CreateObject</a>	Grants permission to create an object in a Directory	Write	<a href="#">directory</a> * -		
<a href="#">CreateSchema</a>	Grants permission to create a new schema in a development state	Write			
<a href="#">CreateTypedLinkFacet</a>	Grants permission to create a new Typed Link facet in a schema	Write	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDirectory</a>	Grants permission to delete a directory. Only disabled directories can be deleted	Write	<a href="#">directory</a> * -		
<a href="#">DeleteFacet</a>	Grants permission to delete a given Facet. All attributes and Rules associated with the facet will be deleted	Write	<a href="#">developmentSchema*</a>		
<a href="#">DeleteObject</a>	Grants permission to delete an object and its associated attributes	Write	<a href="#">directory</a> * -		
<a href="#">DeleteSchema</a>	Grants permission to delete a given schema	Write	<a href="#">developmentSchema*</a>  <a href="#">publishedSchema*</a>		
<a href="#">DeleteTypedLinkFacet</a>	Grants permission to delete a given TypedLink Facet. All attributes and Rules associated with the facet will be deleted	Write	<a href="#">developmentSchema*</a>		
<a href="#">DetachFromIndex</a>	Grants permission to detach the specified object from the specified index	Write	<a href="#">directory</a> * -		
<a href="#">DetachObject</a>	Grants permission to detach a given object from the parent object	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachPolicy</a>	Grants permission to detach a policy from an object	Write	<a href="#">directory</a> * -		
<a href="#">DetachTypedLink</a>	Grants permission to detach a given typed link b/w given source and target object reference	Write	<a href="#">directory</a> * -		
<a href="#">DisableDirectory</a>	Grants permission to disable the specified directory	Write	<a href="#">directory</a> * -		
<a href="#">EnableDirectory</a>	Grants permission to enable the specified directory	Write	<a href="#">directory</a> * -		
<a href="#">GetAppliedSchemaVersion</a>	Grants permission to return current applied schema version ARN, including the minor version in use	Read	<a href="#">appliedSchema</a> *		
<a href="#">GetDirectory</a>	Grants permission to retrieve metadata about a directory	Read	<a href="#">directory</a> * -		
<a href="#">GetFacet</a>	Grants permission to get details of the Facet, such as Facet Name, Attributes, Rules, or ObjectType	Read	<a href="#">appliedSchema</a> *		
			<a href="#">developmentSchema</a> *		
			<a href="#">publishedSchema</a> *		
<a href="#">GetLinkAttributes</a>	Grants permission to retrieve attributes that are associated with a typed link	Read	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetObjectAttributes</a>	Grants permission to retrieve attributes within a facet that are associated with an object	Read	<a href="#">directory</a> * -		
<a href="#">GetObjectInformation</a>	Grants permission to retrieve metadata about an object	Read	<a href="#">directory</a> * -		
<a href="#">GetSchemaAsJson</a>	Grants permission to retrieve a JSON representation of the schema	Read	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
			<a href="#">publishedSchema*</a>		
<a href="#">GetTypedLinkFacetInformation</a>	Grants permission to return identity attributes order information associated with a given typed link facet	Read	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
			<a href="#">publishedSchema*</a>		
<a href="#">ListAppliedSchemas</a>	Grants permission to list schemas applied to a directory	List	<a href="#">directory</a> * -		
<a href="#">ListAttachedIndices</a>	Grants permission to list indices attached to an object	Read	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDevelopmentSchemaArns</a>	Grants permission to retrieve the ARNs of schemas in the development state	List			
<a href="#">ListDirectories</a>	Grants permission to list directories created within an account	List			
<a href="#">ListFacetAttributes</a>	Grants permission to retrieve attributes attached to the facet	Read	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
			<a href="#">publishedSchema*</a>		
<a href="#">ListFacetNames</a>	Grants permission to retrieve the names of facets that exist in a schema	Read	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
			<a href="#">publishedSchema*</a>		
<a href="#">ListIncomingTypedLinks</a>	Grants permission to return a paginated list of all incoming TypedLinks for a given object	Read	<a href="#">directory*</a>		
<a href="#">ListIndex</a>	Grants permission to list objects attached to the specified index	Read	<a href="#">directory*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListManagedSchemaArns</a>	Grants permission to list the major version families of each managed schema. If a major version ARN is provided as SchemaArn, the minor version revisions in that family are listed instead	List			
<a href="#">ListObjectAttributes</a>	Grants permission to list all attributes associated with an object	Read	<a href="#">directory</a> * -		
<a href="#">ListObjectChildren</a>	Grants permission to return a paginated list of child objects associated with a given object	Read	<a href="#">directory</a> * -		
<a href="#">ListObjectParentPaths</a>	Grants permission to retrieve all available parent paths for any object type such as node, leaf node, policy node, and index node objects	Read	<a href="#">directory</a> * -		
<a href="#">ListObjectParents</a>	Grants permission to list parent objects associated with a given object in pagination fashion	Read	<a href="#">directory</a> * -		
<a href="#">ListObjectPolicies</a>	Grants permission to return policies attached to an object in pagination fashion	Read	<a href="#">directory</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOutgoingTypedLinks</a>	Grants permission to return a paginated list of all outgoing TypedLinks for a given object	Read	<a href="#">directory*</a>		
<a href="#">ListPolicyAttachments</a>	Grants permission to return all of the ObjectIdentifiers to which a given policy is attached	Read	<a href="#">directory*</a>		
<a href="#">ListPublishedSchemaArns</a>	Grants permission to retrieve published schema ARNs	List			
<a href="#">ListTagsForResource</a>	Grants permission to return tags for a resource	Read	<a href="#">directory*</a>		
<a href="#">ListTypedLinkFacetAttributes</a>	Grants permission to return a paginated list of attribute s associated with typed link facet	Read	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
			<a href="#">publishedSchema*</a>		
<a href="#">ListTypedLinkFacetNames</a>	Grants permission to return a paginated list of typed link facet names that exist in a schema	Read	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		
			<a href="#">publishedSchema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LookupPolicy</a>	Grants permission to list all policies from the root of the Directory to the object specified	Read	<a href="#">directory</a> * -		
<a href="#">PublishSchema</a>	Grants permission to publish a development schema with a version	Write	<a href="#">developmentSchema*</a>		
<a href="#">PutSchemaFromJson</a>	Grants permission to update a schema using JSON upload. Only available for development schemas	Write			
<a href="#">RemoveFacetFromObject</a>	Grants permission to remove the specified facet from the specified object	Write	<a href="#">directory</a> * -		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">directory</a> * -		
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">directory</a> * -		
<a href="#">UpdateFacet</a>	Grants permission to add/update/delete existing Attributes, Rules, or ObjectType of a Facet	Write	<a href="#">appliedSchema*</a>		
			<a href="#">developmentSchema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLinkAttributes</a>	Grants permission to update a given typed link's attributes. Attributes to be updated must not contribute to the typed link's identity, as defined by its IdentityAttributeOrder	Write	<a href="#">directory</a> * -		
<a href="#">UpdateObjectAttributes</a>	Grants permission to update a given object's attributes	Write	<a href="#">directory</a> * -		
<a href="#">UpdateSchema</a>	Grants permission to update the schema name with a new name	Write	<a href="#">developmentSchema*</a>		
<a href="#">UpdateTypedLinkFacet</a>	Grants permission to add/update/delete existing Attributes, Rules, identity attribute order of a TypedLink Facet	Write	<a href="#">developmentSchema*</a>		
<a href="#">UpgradeAppliedSchema</a>	Grants permission to upgrade a single directory in-place using the Published SchemaArn with schema updates found in MinorVersion. Backwards-compatible minor version upgrades are instantaneously available for readers on all objects in the directory	Write	<a href="#">directory</a> * -  <a href="#">publishedSchema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpgradePublishedSchema</a>	Grants permission to upgrade a published schema under a new minor version revision using the current contents of DevelopmentSchemaArn	Write	<a href="#">developmentSchema*</a> <a href="#">publishedSchema*</a>		

## Resource types defined by Amazon Cloud Directory

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">appliedSchema</a>	arn:\${Partition}:clouddirectory:\${Region}:\${Account}:directory/\${DirectoryId}/schema/\${SchemaName}/\${Version}	
<a href="#">developmentSchema</a>	arn:\${Partition}:clouddirectory:\${Region}:\${Account}:schema/development/\${SchemaName}	
<a href="#">directory</a>	arn:\${Partition}:clouddirectory:\${Region}:\${Account}:directory/\${DirectoryId}	

Resource types	ARN	Condition keys
<a href="#">published Schema</a>	arn:\${Partition}:clouddirectory:\${Region}:\${Account}:schema/published/\${SchemaName}/\${Version}	

## Condition keys for Amazon Cloud Directory

Cloud Directory has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Cloud Map

AWS Cloud Map (service prefix: `servicediscovery`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Cloud Map](#)
- [Resource types defined by AWS Cloud Map](#)
- [Condition keys for AWS Cloud Map](#)

## Actions defined by AWS Cloud Map

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHttpNamespace</a>	Grants permission to create an HTTP namespace	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePrivateDnsNamespace</a>	Grants permission to create a private namespace based on DNS, which will be visible only inside a specified Amazon VPC	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePublicDnsNamespace</a>	Grants permission to create a public namespace based on DNS, which will be visible on the internet	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateService</a>	Grants permission to create a service	Write	<a href="#">namespace*</a>  <a href="#">service*</a>	<a href="#">servicediscovery:NamespaceArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteNamespace</a>	Grants permission to delete a specified namespace	Write	<a href="#">namespace*</a>		
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete the RAM access control policy for a namespace	Write	<a href="#">namespace*</a>		
<a href="#">DeleteService</a>	Grants permission to delete a specified service	Write	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceCreatedByAccount</a>	
<a href="#">DeleteServiceAttributes</a>	Grants permission to delete specified attributes from a service	Write	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceCreatedByAccount</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterInstance</a>	Grants permission to delete the records and the health check, if any, that Amazon Route 53 created for the specified instance	Write	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceArn</a> <a href="#">servicediscovery:ServiceCreatedByAccount</a>	
<a href="#">DiscoverInstances</a>	Grants permission to discover registered instances for a specified namespace and service	Read	<a href="#">namespace*</a> <a href="#">service*</a>	<a href="#">servicediscovery:NamespaceName</a> <a href="#">servicediscovery:ServiceName</a>	
<a href="#">DiscoverInstancesRevision</a>	Grants permission to discover the revision of the instances for a specified namespace and service	Read	<a href="#">namespace*</a> <a href="#">service*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">servicediscovery:NamespaceName</a> <a href="#">servicediscovery:ServiceName</a>	
<a href="#">GetInstance</a>	Grants permission to get information about a specified instance	Read	<a href="#">service*</a>		
				<a href="#">servicediscovery:ServiceArn</a>	
<a href="#">GetInstanceHealthStatus</a>	Grants permission to get the current health status (Healthy, Unhealthy, or Unknown) of one or more instances	Read	<a href="#">service*</a>		
				<a href="#">servicediscovery:ServiceArn</a>	
<a href="#">GetNamespace</a>	Grants permission to get information about a namespace	Read	<a href="#">namespace*</a>		
<a href="#">GetOperation</a>	Grants permission to get information about a specific operation	Read	<a href="#">namespace*</a>		
			<a href="#">service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to read the RAM access control policy for a namespace	Read	<a href="#">namespace*</a>		
<a href="#">GetService</a>	Grants permission to get the settings for a specified service	Read	<a href="#">service*</a>		
<a href="#">GetServiceAttributes</a>	Grants permission to get the attributes for a specified service	Read	<a href="#">service*</a>		
<a href="#">ListInstances</a>	Grants permission to get summary information about the instances that were registered with a specified service	Read	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceArn</a>	
<a href="#">ListNamespaces</a>	Grants permission to get information about the namespaces	Read			
<a href="#">ListOperations</a>	Grants permission to list operations that match the criteria that you specify	List			
<a href="#">ListServices</a>	Grants permission to get settings for all the services that match specified filters	Read			
<a href="#">ListTagsForResource</a>	Grants permission to lists tags for the specified resource	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to define the RAM access control policy for a namespace	Write	<a href="#">namespace</a> * -		
<a href="#">RegisterInstance</a>	Grants permission to register an instance based on the settings in a specified service	Write	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceArn</a>  <a href="#">servicediscovery:ServiceCreatedByAccount</a>	
<a href="#">TagResource</a>	Grants permission to add one or more tags to the specified resource	Tagging		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from the specified resource	Tagging		<a href="#">aws:TagKeys</a>	
<a href="#">UpdateHttpNamespace</a>	Grants permission to update the settings for a HTTP namespace	Write	<a href="#">namespace</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInstanceCustomHealthStatus</a>	Grants permission to update the current health status for an instance that has a custom health check	Write	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceArn</a> <a href="#">servicediscovery:ServiceCreatedByAccount</a>	
<a href="#">UpdatePrivateDnsNamespace</a>	Grants permission to update the settings for a private DNS namespace	Write	<a href="#">namespace*</a>		
<a href="#">UpdatePublicDnsNamespace</a>	Grants permission to update the settings for a public DNS namespace	Write	<a href="#">namespace*</a>		
<a href="#">UpdateService</a>	Grants permission to update the settings in a specified service	Write	<a href="#">service*</a>	<a href="#">servicediscovery:ServiceCreatedByAccount</a>	
<a href="#">UpdateServiceAttributes</a>	Grants permission to update the attributes in a specified service	Write	<a href="#">service*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">servicediscovery:ServiceCreatedByAccount</a>	

## Resource types defined by AWS Cloud Map

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">namespace</a>	arn:\${Partition}:servicediscovery:\${Region}:\${Account}:namespace/\${NamespaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service</a>	arn:\${Partition}:servicediscovery:\${Region}:\${Account}:service/\${ServiceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Cloud Map

AWS Cloud Map defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the tag keys that are passed in the request	ArrayOfString
<a href="#">servicediscovery:NamespaceArn</a>	Filters access by specifying the Amazon Resource Name (ARN) for the related namespace	ARN
<a href="#">servicediscovery:NamespaceName</a>	Filters access by specifying the name of the related namespace	String
<a href="#">servicediscovery:ServiceArn</a>	Filters access by specifying the Amazon Resource Name (ARN) for the related service	ARN
<a href="#">servicediscovery:ServiceCreatedByAccount</a>	Filters access by specifying the account id of the related service creator	String
<a href="#">servicediscovery:ServiceName</a>	Filters access by specifying the name of the related service	String

## Actions, resources, and condition keys for AWS Cloud9

AWS Cloud9 (service prefix: `c1oud9`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Cloud9](#)
- [Resource types defined by AWS Cloud9](#)
- [Condition keys for AWS Cloud9](#)

### Actions defined by AWS Cloud9

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).


The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type



is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateEC2Remote</a> [permission only]	Grants permission to start the Amazon EC2 instance that your AWS Cloud9 IDE connects to	Write	<a href="#">environment*</a>		
<a href="#">CreateEnvironmentEC2</a>	Grants permission to create an AWS Cloud9 development environment, launches an Amazon Elastic Compute Cloud (Amazon EC2) instance,	Write		<a href="#">cloud9:EnvironmentName</a>	ec2:DescribeSubnets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	and then hosts the environment on the instance			<a href="#">cloud9:InstanceType</a> <a href="#">cloud9:SubnetId</a> <a href="#">cloud9:UserArn</a> <a href="#">cloud9:OwnerArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:DescribeVpcs iam:CreateServiceLinkedRole
<a href="#">CreateEnvironmentMembership</a>	Grants permission to add an environment member to an AWS Cloud9 development environment	Write	<a href="#">environment*</a>	<a href="#">cloud9:UserArn</a> <a href="#">cloud9:EnvironmentId</a> <a href="#">cloud9:Permissions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironmentSSH</a> [permission only]	Grants permission to create an AWS Cloud9 SSH development environment	Write		<a href="#">cloud9:EnvironmentName</a> <a href="#">cloud9:OwnerArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEnvironmentToken</a> [permission only]	Grants permission to create an authentication token that allows a connection between the AWS Cloud9 IDE and the user's environment	Read	<a href="#">environment*</a>		
<a href="#">DeleteEnvironment</a>	Grants permission to delete an AWS Cloud9 development environment. If the environment is hosted on an Amazon Elastic Compute Cloud (Amazon EC2) instance, also terminates the instance	Write	<a href="#">environment*</a>		iam:CreateServiceLinkedRole
<a href="#">DeleteEnvironmentMembership</a>	Grants permission to delete an environment member from an AWS Cloud9 development environment	Write	<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">cloud9:UserArn</a> <a href="#">cloud9:EnvironmentId</a>	
<a href="#">DescribeEC2Remote</a> [permission only]	Grants permission to get details about the connection to the EC2 development environment, including host, user, and port	Read	<a href="#">environment*</a>		
<a href="#">DescribeEnvironmentMemberships</a>	Grants permission to get information about environment members for an AWS Cloud9 development environment	Read	<a href="#">environment*</a>	<a href="#">cloud9:UserArn</a> <a href="#">cloud9:EnvironmentId</a>	
<a href="#">DescribeEnvironmentStatus</a>	Grants permission to get status information for an AWS Cloud9 development environment	Read	<a href="#">environment*</a>		
<a href="#">DescribeEnvironments</a>	Grants permission to get information about AWS Cloud9 development environments	Read	<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSSHRemote</a> [permission only]	Grants permission to get details about the connection to the SSH development environment, including host, user, and port	Read	<a href="#">environment*</a>		
<a href="#">GetEnvironmentConfig</a> [permission only]	Grants permission to get configuration information that's used to initialize the AWS Cloud9 IDE	Read	<a href="#">environment*</a>		
<a href="#">GetEnvironmentSettings</a> [permission only]	Grants permission to get the AWS Cloud9 IDE settings for a specified development environment	Read	<a href="#">environment*</a>		
<a href="#">GetMembershipSettings</a> [permission only]	Grants permission to get the AWS Cloud9 IDE settings for a specified environment member	Read	<a href="#">environment*</a>		
<a href="#">GetMigrationExperiences</a> [permission only]	Grants permission to get the migration experience for a cloud9 user	Read			
<a href="#">GetUserPublicKey</a> [permission only]	Grants permission to get the user's public SSH key, which is used by AWS Cloud9 to connect to SSH development environments	Read		<a href="#">cloud9:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUserSettings</a> [permission only]	Grants permission to get the AWS Cloud9 IDE settings for a specified user	Read			
<a href="#">ListEnvironments</a>	Grants permission to get a list of AWS Cloud9 development environment identifiers	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a cloud9 environment	Read	<a href="#">environment*</a>		
<a href="#">ModifyTemporaryCredentialsOnEnvironmentEC2</a> [permission only]	Grants permission to set AWS managed temporary credentials on the Amazon EC2 instance that's used by the AWS Cloud9 integrated development environment (IDE)	Write	<a href="#">environment*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a cloud9 environment	Tagging	<a href="#">environment*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a cloud9 environment	Tagging	<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateEnvironment</a>	Grants permission to change the settings of an existing AWS Cloud9 development environment	Write	<a href="#">environment*</a>		
<a href="#">UpdateEnvironmentMembership</a>	Grants permission to change the settings of an existing environment member for an AWS Cloud9 development environment	Write	<a href="#">environment*</a>	<a href="#">cloud9:UserArn</a> <a href="#">cloud9:EnvironmentId</a> <a href="#">cloud9:Permissions</a>	
<a href="#">UpdateEnvironmentSettings</a> [permission only]	Grants permission to update the AWS Cloud9 IDE settings for a specified development environment	Write	<a href="#">environment*</a>		
<a href="#">UpdateMembershipSettings</a> [permission only]	Grants permission to update the AWS Cloud9 IDE settings for a specified environment member	Write	<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSSHRemote</a> [permission only]	Grants permission to update details about the connection to the SSH development environment, including host, user, and port	Write	<a href="#">environment*</a>		
<a href="#">UpdateUserSettings</a> [permission only]	Grants permission to update IDE-specific settings of an AWS Cloud9 user	Write			

## Resource types defined by AWS Cloud9

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:cloud9:\${Region}:\${Account}:environment:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Cloud9

AWS Cloud9 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">cloud9:EnvironmentId</a>	Filters access by the AWS Cloud9 environment ID	String
<a href="#">cloud9:EnvironmentName</a>	Filters access by the AWS Cloud9 environment name	String
<a href="#">cloud9:InstanceType</a>	Filters access by the instance type of the AWS Cloud9 environment's Amazon EC2 instance	String
<a href="#">cloud9:OwnerArn</a>	Filters access by the owner ARN specified	ARN
<a href="#">cloud9:Permissions</a>	Filters access by the type of AWS Cloud9 permissions	String
<a href="#">cloud9:SubnetId</a>	Filters access by the subnet ID that the AWS Cloud9 environment will be created in	String
<a href="#">cloud9:UserArn</a>	Filters access by the user ARN specified	ARN

## Actions, resources, and condition keys for AWS CloudFormation

AWS CloudFormation (service prefix: `cloudformation`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS CloudFormation](#)
- [Resource types defined by AWS CloudFormation](#)
- [Condition keys for AWS CloudFormation](#)

## Actions defined by AWS CloudFormation

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateOrganizationsAccess</a>	Grants permission to activate trusted access between StackSets and Organizations. With trusted access between StackSets and Organizations activated, the management account has permissions to create and manage StackSets for your organization	Write			
<a href="#">ActivateType</a>	Grants permission to activate a public third-party extension	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	, making it available for use in stack templates				
<a href="#">BatchDescribeTypeConfigurations</a>	Grants permission to return configuration data for the specified CloudFormation extensions	Read			
<a href="#">CancelUpdateStack</a>	Grants permission to cancel an update on the specified stack	Write	<a href="#">stack*</a>		
<a href="#">ContinueUpdateRollback</a>	Grants permission to continue rolling back a stack that is in the UPDATE_ROLLBACK_FAILED state to the UPDATE_ROLLBACK_COMPLETE state	Write	<a href="#">stack*</a>	<a href="#">cloudformation:RoleArn</a>	
<a href="#">CreateChangeSet</a>	Grants permission to create a list of changes for a stack	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">cloudformation:ChangeSetName</a> <a href="#">cloudformation:ResourceTypes</a> <a href="#">cloudformation:ImportResourceTypes</a> <a href="#">cloudformation:RoleArn</a> <a href="#">cloudformation:StackPolicyUrl</a> <a href="#">cloudformation:TemplateUrl</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGeneratedTemplate</a>	Grants permission to create a template from existing resources that are not already managed with CloudFormation	Write		<a href="#">aws:TagKeys</a>	
<a href="#">CreateStack</a>	Grants permission to create a stack as specified in the template	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">cloudformation:ResourceTypes</a> <a href="#">cloudformation:RoleArn</a> <a href="#">cloudformation:StackPolicyUrl</a> <a href="#">cloudformation:TemplateUrl</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStackInstances</a>	Grants permission to create stack instances for the specified accounts, within the specified regions	Write	<a href="#">stackset*</a> <a href="#">stackset-target</a> <a href="#">type</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">cloudformation:TargetRegion</a>	
<a href="#">CreateStackRefactor</a>	Grants permission to create a stack refactor	Write	<a href="#">stack*</a>		
<a href="#">CreateStackSet</a>	Grants permission to create a stackset as specified in the template	Write		<a href="#">cloudformation:RoleArn</a>  <a href="#">cloudformation:TemplateUrl</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateUploadBucket</a> [permission only]	Grants permission to upload templates to Amazon S3 buckets. Used only by the AWS CloudFormation console and is not documented in the API reference	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeactivateOrganizationsAccess</a>	Grants permission to deactivate trusted access between StackSets and Organizations. If trusted access is deactivated, the management account does not have permissions to create and manage service-managed StackSets for your organization	Write			
<a href="#">DeactivateType</a>	Grants permission to deactivate a public extension that was previously activated in this account and region	Write			
<a href="#">DeleteChangeSet</a>	Grants permission to delete the specified change set. Deleting change sets ensures that no one executes the wrong change set	Write	<a href="#">stack*</a>	<a href="#">cloudformation:ChangeSetName</a>	
<a href="#">DeleteGeneratedTemplate</a>	Grants permission to delete a generated template	Write			
<a href="#">DeleteStack</a>	Grants permission to delete a specified stack	Write	<a href="#">stack*</a>	<a href="#">cloudformation:RoleArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteStackInstances</a>	Grants permission to delete stack instances for the specified accounts, in the specified regions	Write	<a href="#">stackset*</a>		
			<a href="#">stackset-target</a>		
			<a href="#">type</a>		
				<a href="#">cloudformation:TargetRegion</a>	
<a href="#">DeleteStackSet</a>	Grants permission to delete a specified stackset	Write	<a href="#">stackset*</a>		
<a href="#">DeregisterType</a>	Grants permission to deregister an existing CloudFormation type or type version	Write			
<a href="#">DescribeAccountLimits</a>	Grants permission to retrieve your account's AWS CloudFormation limits	Read			
<a href="#">DescribeChangeSet</a>	Grants permission to return the description for the specified change set	Read	<a href="#">stack*</a>		
				<a href="#">cloudformation:ChangeSetName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeChangeSetHooks</a>	Grants permission to return the Hook invocation information for the specified change set	Read	<a href="#">stack*</a>	<a href="#">cloudformation:ChangeSetName</a>	
<a href="#">DescribeEvents</a>	Grants permission to return all related events for a specified operation	Read	<a href="#">changeset</a> <a href="#">stack</a>		
<a href="#">DescribeGeneratedTemplate</a>	Grants permission to describe a generated template. The output includes details about the progress of the creation of a generated template	Read			
<a href="#">DescribeOrganizationsAccess</a>	Grants permission to return information about the account's OrganizationAccess status	Read			
<a href="#">DescribePublisher</a>	Grants permission to return information about a CloudFormation extension publisher	Read			
<a href="#">DescribeResourceScan</a>	Grants permission to describe details of a resource scan	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStackDriftDetectionStatus</a>	Grants permission to return information about a stack drift detection operation	Read			
<a href="#">DescribeStackEvents</a>	Grants permission to return all stack related events for a specified stack	Read	<a href="#">stack*</a>		
<a href="#">DescribeStackInstance</a>	Grants permission to return the stack instance that's associated with the specified stack set, AWS account, and region	Read	<a href="#">stackset*</a>		
<a href="#">DescribeStackRefactor</a>	Grants permission to return the description for the specified stack refactor	Read	<a href="#">stack*</a>		
<a href="#">DescribeStackResource</a>	Grants permission to return a description of the specified resource in the specified stack	Read	<a href="#">stack*</a>		
<a href="#">DescribeStackResourceDrifts</a>	Grants permission to return drift information for the resources that have been checked for drift in the specified stack	Read	<a href="#">stack*</a>		
<a href="#">DescribeStackResources</a>	Grants permission to return AWS resource descriptions for running and deleted stacks	Read	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStackSet</a>	Grants permission to return the description of the specified stack set	Read	<a href="#">stackset*</a>		
<a href="#">DescribeStackSetOperation</a>	Grants permission to return the description of the specified stack set operation	Read	<a href="#">stackset*</a>		
<a href="#">DescribeStacks</a>	Grants permission to return the description for the specified stack, and to all stacks when used in combination with the ListStacks action	List	<a href="#">stack</a>		cloudformation:ListStacks
<a href="#">DescribeType</a>	Grants permission to return information about the CloudFormation type requested	Read			
<a href="#">DescribeTypeRegistration</a>	Grants permission to return information about the registration process for a CloudFormation type	Read			
<a href="#">DetectStackDrift</a>	Grants permission to detects whether a stack's actual configuration differs, or has drifted, from it's expected configuration, as defined in the stack template and any values specified as template parameters	Read	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetectStackResourceDrift</a>	Grants permission to return information about whether a resource's actual configuration differs, or has drifted, from its expected configuration, as defined in the stack template and any values specified as template parameters	Read	<a href="#">stack*</a>		
<a href="#">DetectStackSetDrift</a>	Grants permission to enable users to detect drift on a stack set and the stack instances that belong to that stack set	Read	<a href="#">stackset*</a>		
<a href="#">EstimateTemplateCost</a>	Grants permission to return the estimated monthly cost of a template	Read		<a href="#">cloudformation:TemplateUrl</a>	
<a href="#">ExecuteChangeSet</a>	Grants permission to update a stack using the input information that was provided when the specified change set was created	Write	<a href="#">stack*</a>	<a href="#">cloudformation:ChangeSetName</a>	
<a href="#">ExecuteStackRefactor</a>	Grants permission to execute a stack refactor using the input information that was provided when the specified stack refactor was created	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGeneratedTemplate</a>	Grants permission to retrieve a generated template	Read			
<a href="#">GetHookResult</a>	Grants permission to return detailed information about a specific hook invocation result	Read		<a href="#">cloudformation:TypeArn</a>	kms:Decrypt
<a href="#">GetStackPolicy</a>	Grants permission to return the stack policy for a specified stack	Read	<a href="#">stack*</a>		
<a href="#">GetTemplate</a>	Grants permission to return the template body for a specified stack	Read	<a href="#">stack*</a>		
<a href="#">GetTemplateSummary</a>	Grants permission to return information about a new or existing template	Read	<a href="#">stack</a>		
			<a href="#">stackset</a>		
				<a href="#">cloudformation:TemplateUrl</a>	
<a href="#">ImportStacksToStackSet</a>	Grants permission to enable users to import existing stacks to a new or existing stackset	Write	<a href="#">stackset*</a>		
<a href="#">ListAllHookResults</a>	Grants permission to return Hook invocations result information for a specified Hook, a combination of Hook and status, or all Hooks	List		<a href="#">cloudformation:TypeArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListChangeSets</a>	Grants permission to return the ID and status of each active change set for a stack. For example, AWS CloudFormation lists change sets that are in the CREATE_IN_PROGRESS or CREATE_PENDING state	List	<a href="#">stack*</a>		
<a href="#">ListExports</a>	Grants permission to list all exported output values in the account and region in which you call this action	List			
<a href="#">ListGeneratedTemplates</a>	Grants permission to list your generated templates in this Region	List			
<a href="#">ListHookResults</a>	Grants permission to return Hook invocations result information for the specified target	List	<a href="#">stack</a>	<a href="#">cloudformation:ChangeSetName</a>	
<a href="#">ListImports</a>	Grants permission to list all stacks that are importing an exported output value	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceScanRelatedResources</a>	Grants permission to list the related resources for a list of resources from a resource scan. The response indicates whether each returned resource is already managed by CloudFormation	List			
<a href="#">ListResourceScansources</a>	Grants permission to list the resources from a resource scan. The results can be filtered by resource identifier, resource type prefix, tag key, and tag value	List			
<a href="#">ListResourceScans</a>	Grants permission to list the resource scans from newest to oldest. By default it will return up to 10 resource scans	List			
<a href="#">ListStackInstanceResourceDrifts</a>	Grants permission to return drift information for the resources that have been checked for drift in the specified stack instance	List	<a href="#">stackset*</a>		
<a href="#">ListStackInstances</a>	Grants permission to return summary information about stack instances that are associated with the specified stack set	List	<a href="#">stackset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStackRefactorActions</a>	Grants permission to return the list of actions of the specified stack refactor	List	<a href="#">stack*</a>		
<a href="#">ListStackRefactors</a>	Grants permission to return the ID and status of each active stack refactor	List	<a href="#">stack*</a>		
<a href="#">ListStackResources</a>	Grants permission to return descriptions of all resources of the specified stack	List	<a href="#">stack*</a>		
<a href="#">ListStackSetAutoDeploymentTargets</a>	Grants permission to return summary information about StackSet Auto Deployment Targets	List	<a href="#">stackset*</a>		
<a href="#">ListStackSetOperationResults</a>	Grants permission to return summary information about the results of a stack set operation	List	<a href="#">stackset*</a>		
<a href="#">ListStackSetOperations</a>	Grants permission to return summary information about operations performed on a stack set	List	<a href="#">stackset*</a>		
<a href="#">ListStackSets</a>	Grants permission to return summary information about stack sets that are associated with the user	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStacks</a>	Grants permission to return the summary information for stacks whose status matches the specified StackStatusFilter. In combination with the DescribeStacks action, grants permission to list descriptions for stacks	List			
<a href="#">ListTypeRegistrations</a>	Grants permission to list CloudFormation type registration attempts	List			
<a href="#">ListTypeVersions</a>	Grants permission to list versions of a particular CloudFormation type	List			
<a href="#">ListTypes</a>	Grants permission to list available CloudFormation types	List			
<a href="#">PublishType</a>	Grants permission to publish the specified extension to the CloudFormation registry as a public extension in this region	Write			
<a href="#">RecordHandlerProgress</a>	Grants permission to record the handler progress	Write	<a href="#">stack*</a>		
<a href="#">RegisterPublisher</a>	Grants permission to register account as a publisher of public extensions in the CloudFormation registry	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterType</a>	Grants permission to register a new CloudFormation type	Write			
<a href="#">RollbackStack</a>	Grants permission to rollback the stack to the last stable state	Write	<a href="#">stack*</a>	<a href="#">cloudformation:RoleArn</a>	
<a href="#">SetStackPolicy</a>	Grants permission to set a stack policy for a specified stack	Permissions management	<a href="#">stack*</a>	<a href="#">cloudformation:StackPolicyUrl</a>	
<a href="#">SetTypeConfiguration</a>	Grants permission to set the configuration data for a registered CloudFormation extension, in the given account and region	Write			
<a href="#">SetTypeDefaultVersion</a>	Grants permission to set which version of a CloudFormation type applies to CloudFormation operations	Write			
<a href="#">SignalResource</a>	Grants permission to send a signal to the specified resource with a success or failure status	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartResourceScan</a>	Grants permission to start a scan of the resources in this account in this Region	Write			
<a href="#">StopStackSetOperation</a>	Grants permission to stop an in-progress operation on a stack set and its associated stack instances	Write	<a href="#">stackset*</a>		
<a href="#">TagResource</a>	Grants permission to tag cloudformation resources	Tagging	<a href="#">changeset</a>		
			<a href="#">stack</a>		
			<a href="#">stackset</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">cloudformation:CreateAction</a>	
<a href="#">TestType</a>	Grants permission to test a registered extension to make sure it meets all necessary requirements for being published in the CloudFormation registry	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to untag cloudformation resources	Tagging	<a href="#">changeset</a>		
			<a href="#">stack</a>		
			<a href="#">stackset</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">cloudformation:CreateAction</a>	
<a href="#">UpdateGeneratedTemplate</a>	Grants permission to update a generated template. This can be used to change the name, add and remove resources, refresh resources , and change the DeletionPolicy and UpdateReplacePolicy settings	Write			
<a href="#">UpdateStack</a>	Grants permission to update a stack as specified in the template	Write	<a href="#">stack*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">cloudformation:ResourceTypes</a> <a href="#">cloudformation:RoleArn</a> <a href="#">cloudformation:StackPolicyUrl</a> <a href="#">cloudformation:TemplateUrl</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateStackInstances</a>	Grants permission to update the parameter values for stack instances for the specified accounts, within the specified regions	Write	<a href="#">stackset*</a> <a href="#">stackset-target</a> <a href="#">type</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">cloudformation:TargetRegion</a>	
<a href="#">UpdateStackSet</a>	Grants permission to update a stackset as specified in the template	Write	<a href="#">stackset*</a>		
			<a href="#">stackset-target</a>		
			<a href="#">type</a>		
				<a href="#">cloudformation:RoleArn</a> <a href="#">cloudformation:TemplateUrl</a> <a href="#">cloudformation:TargetRegion</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateTerminationProtection</a>	Grants permission to update termination protection for the specified stack	Write	<a href="#">stack*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidateTemplate</a>	Grants permission to validate a specified template	Read		<a href="#">cloudformation:TemplateUrl</a>	

## Resource types defined by AWS CloudFormation

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">changeset</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:changeSet/\${ChangeSetName}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stack</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:stack/\${StackName}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stackset</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:stackset/\${StackSetName}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stackset-target</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:stackset-target/\${StackSetTarget}	

Resource types	ARN	Condition keys
<a href="#">type</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:type/resource/\${Type}	
<a href="#">typeHook</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:type/hook/\${Type}	
<a href="#">generated template</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:generatedTemplate/\${Id}	
<a href="#">resourcescan</a>	arn:\${Partition}:cloudformation:\${Region}:\${Account}:resourceScan/\${Id}	

## Condition keys for AWS CloudFormation

AWS CloudFormation defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">cloudformation:ChangeSetName</a>	Filters access by an AWS CloudFormation change set name. Use to control which change sets IAM users can execute or delete	String
<a href="#">cloudformation:CreateAction</a>	Filters access by the name of a resource-mutating API action. Use to control which APIs IAM users can use to add or remove tags on a stack or stack set	String
<a href="#">cloudformation:ImportResourceTypes</a>	Filters access by the template resource types, such as AWS::EC2::Instance. Use to control which resource types IAM users can work with when they want to import a resource into a stack	String
<a href="#">cloudformation:ResourceTypes</a>	Filters access by the template resource types, such as AWS::EC2::Instance. Use to control which resource types IAM users can work with when they create or update a stack	ArrayOfString
<a href="#">cloudformation:RoleArn</a>	Filters access by the ARN of an IAM service role. Use to control which service role IAM users can use to work with stacks or change sets	ARN
<a href="#">cloudformation:StackPolicyUrl</a>	Filters access by an Amazon S3 stack policy URL. Use to control which stack policies IAM users can associate with a stack during a create or update stack action	String
<a href="#">cloudformation:TargetRegion</a>	Filters access by stack set target region. Use to control which regions IAM users can use when they create or update stack sets	ArrayOfString
<a href="#">cloudformation:TemplateUrl</a>	Filters access by an Amazon S3 template URL. Use to control which templates IAM users can use when they create or update stacks	String
<a href="#">cloudformation:TypeArn</a>	Filters access by the ARN of a CloudFormation extension	ARN

## Actions, resources, and condition keys for Amazon CloudFront

Amazon CloudFront (service prefix: `cloudfront`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudFront](#)
- [Resource types defined by Amazon CloudFront](#)
- [Condition keys for Amazon CloudFront](#)

## Actions defined by Amazon CloudFront

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for a distribution	Permissions management	<a href="#">distribution</a>		
<a href="#">AssociateAlias</a>	Grants permission to associate an alias to a CloudFront distribution	Write	<a href="#">distribution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateDistributionTenantWebACL</a>	Grants permission to associate a distribution tenant with an AWS WAF web ACL	Write	<a href="#">distribution-tenant*</a>		
<a href="#">AssociateDistributionWebACL</a>	Grants permission to associate a distribution with an AWS WAF web ACL	Write	<a href="#">distribution*</a>		
<a href="#">CopyDistribution</a>	Grants permission to copy an existing distribution and create a new web distribution	Write	<a href="#">distribution*</a>		cloudfront:CopyDistribution  cloudfront:CreateDistribution  cloudfront:GetDistribution
<a href="#">CreateAnycastIpList</a>	Grants permission to create an Anycast static IP list	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCachePolicy</a>	Grants permission to add a new cache policy to CloudFront	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCloudFrontOriginAccessIdentity</a>	Grants permission to create a new CloudFront origin access identity	Write			
<a href="#">CreateConnectionFunction</a>	Grants permission to create a connection function	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConnectionGroup</a>	Grants permission to create a connection group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateContinuousDeploymentPolicy</a>	Grants permission to add a new continuous-deployment policy to CloudFront	Write			
<a href="#">CreateDistribution</a>	Grants permission to create a new web distribution	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	cloudfront:CreateConnectionGroup

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDistributionTenant</a>	Grants permission to create a distribution tenant	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateFieldLevelEncryptionConfig</a>	Grants permission to create a new field-level encryption configuration	Write			
<a href="#">CreateFieldLevelEncryptionProfile</a>	Grants permission to create a field-level encryption profile	Write			
<a href="#">CreateFunction</a>	Grants permission to create a CloudFront function	Write			
<a href="#">CreateInvalidation</a>	Grants permission to create a new invalidation batch request	Write	<a href="#">distribution*</a>		
<a href="#">CreateInvalidationForDistributionTenant</a>	Grants permission to create an invalidation for a distribution tenant	Write	<a href="#">distribution-tenant*</a>		
<a href="#">CreateKeyGroup</a>	Grants permission to add a new key group to CloudFront	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateKeyValueStore</a>	Grants permission to create a CloudFront KeyValueStore	Write			
<a href="#">CreateMonitoringSubscription</a>	Grants permission to enable additional CloudWatch metrics for the specified CloudFront distribution. The additional metrics incur an additional cost	Write			
<a href="#">CreateOriginAccessControl</a>	Grants permission to create a new origin access control	Write			
<a href="#">CreateOriginRequestPolicy</a>	Grants permission to add a new origin request policy to CloudFront	Write			
<a href="#">CreatePublicKey</a>	Grants permission to add a new public key to CloudFront	Write			
<a href="#">CreateRealtimeLogConfiguration</a>	Grants permission to create a real-time log configuration	Write			
<a href="#">CreateResponseHeadersPolicy</a>	Grants permission to add a new response headers policy to CloudFront	Write			
<a href="#">CreateSavingsPlan</a> [permission only]	Grants permission to create a new savings plan	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStreamingDistribution</a>	Grants permission to create a new RTMP distribution	Write			
<a href="#">CreateStreamingDistributionWithTags</a>	Grants permission to create a new RTMP distribution with tags	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTrustStore</a>	Grants permission to create a trust store	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateVpcOrigin</a>	Grants permission to create a VPC origin	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAnycastIpList</a>	Grants permission to delete an Anycast static IP list	Write	<a href="#">anycast-ip-list*</a>		
<a href="#">DeleteCachePolicy</a>	Grants permission to delete a cache policy	Write	<a href="#">cache-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCloudFrontOriginAccessIdentity</a>	Grants permission to delete a CloudFront origin access identity	Write	<a href="#">origin-access-identity*</a>		
<a href="#">DeleteConnectionFunction</a>	Grants permission to delete a connection function	Write	<a href="#">connection-function*</a>		
<a href="#">DeleteConnectionGroup</a>	Grants permission to delete a connection group	Write	<a href="#">connection-group*</a>		
<a href="#">DeleteContinuousDeploymentPolicy</a>	Grants permission to delete a continuous-deployment policy	Write	<a href="#">continuous-deployment-policy*</a>		
<a href="#">DeleteDistribution</a>	Grants permission to delete a web distribution	Write	<a href="#">distribution*</a>		
<a href="#">DeleteDistributionTenant</a>	Grants permission to delete a distribution tenant	Write	<a href="#">distribution-tenant*</a>		
<a href="#">DeleteFieldLevelEncryptionConfiguration</a>	Grants permission to delete a field-level encryption configuration	Write	<a href="#">field-level-encryption-configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFieldLevelEncryptionProfile</a>	Grants permission to delete a field-level encryption profile	Write	<a href="#">field-level-encryption-profile*</a>		
<a href="#">DeleteFunction</a>	Grants permission to delete a CloudFront function	Write	<a href="#">function*</a>		
<a href="#">DeleteKeyGroup</a>	Grants permission to delete a key group	Write			
<a href="#">DeleteKeyValueStore</a>	Grants permission to delete a CloudFront KeyValueStore	Write	<a href="#">key-value-store*</a>		
<a href="#">DeleteMonitoringSubcription</a>	Grants permission to disable additional CloudWatch metrics for the specified CloudFront distribution	Write			
<a href="#">DeleteOriginAccessControl</a>	Grants permission to delete an origin access control	Write	<a href="#">origin-access-control*</a>		
<a href="#">DeleteOriginRequestPolicy</a>	Grants permission to delete an origin request policy	Write	<a href="#">origin-request-policy*</a>		
<a href="#">DeletePublicKey</a>	Grants permission to delete a public key from CloudFront	Write			
<a href="#">DeleteRealtimeLogConfiguration</a>	Grants permission to delete a real-time log configuration	Write	<a href="#">realtime-log-config*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource's policy document	Write	<a href="#">vpcorigin</a>		
<a href="#">DeleteResponseHeadersPolicy</a>	Grants permission to delete a response headers policy	Write	<a href="#">response-headers-policy*</a>		
<a href="#">DeleteStreamingDistribution</a>	Grants permission to delete an RTMP distribution	Write	<a href="#">streaming-distribution*</a>		
<a href="#">DeleteTrustStore</a>	Grants permission to delete a trust store	Write	<a href="#">trust-store*</a>		
<a href="#">DeleteVpcOrigin</a>	Grants permission to delete a VPC origin	Write	<a href="#">vpcorigin*</a>		
<a href="#">DescribeConnectionFunction</a>	Grants permission to get a connection function summary	Read	<a href="#">connection-function*</a>		
<a href="#">DescribeFunction</a>	Grants permission to get a CloudFront function summary	Read	<a href="#">function*</a>		
<a href="#">DescribeKeyValueStore</a>	Grants permission to get a CloudFront KeyValueStore summary	Read	<a href="#">key-value-store*</a>		
<a href="#">DisassociateDistributionTenantWebACL</a>	Grants permission to disassociate a distribution tenant from an AWS WAF web ACL	Write	<a href="#">distribution-tenant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateDistributionWebACL</a>	Grants permission to disassociate a distribution from an AWS WAF web ACL	Write	<a href="#">distribution*</a>		
<a href="#">GetAnycastIplList</a>	Grants permission to get an Anycast static IP list	Read	<a href="#">anycast-ip-list*</a>		
<a href="#">GetCachePolicy</a>	Grants permission to get the cache policy	Read	<a href="#">cache-policy*</a>		
<a href="#">GetCachePolicyConfig</a>	Grants permission to get the cache policy configuration	Read	<a href="#">cache-policy*</a>		
<a href="#">GetCloudFrontOriginAccessIdentity</a>	Grants permission to get the information about a CloudFront origin access identity	Read	<a href="#">origin-access-identity*</a>		
<a href="#">GetCloudFrontOriginAccessIdentityConfig</a>	Grants permission to get the configuration information about a Cloudfront origin access identity	Read	<a href="#">origin-access-identity*</a>		
<a href="#">GetConnectionFunction</a>	Grants permission to get a connection function's code	Read	<a href="#">connection-function*</a>		
<a href="#">GetConnectionGroup</a>	Grants permission to get information about a connection group	Read	<a href="#">connection-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConnectionGroupByRoutingEndpoint</a>	Grants permission to get information about a connection group by the specified routing endpoint	Read	<a href="#">connection-group*</a>		
<a href="#">GetContinuousDeploymentPolicy</a>	Grants permission to get the continuous-deployment policy	Read	<a href="#">continuous-deployment-policy*</a>		
<a href="#">GetContinuousDeploymentPolicyConfig</a>	Grants permission to get the continuous-deployment policy configuration	Read	<a href="#">continuous-deployment-policy*</a>		
<a href="#">GetDistribution</a>	Grants permission to get the information about a web distribution	Read	<a href="#">distribution*</a>		
<a href="#">GetDistributionConfig</a>	Grants permission to get the configuration information about a distribution	Read	<a href="#">distribution*</a>		
<a href="#">GetDistributionTenant</a>	Grants permission to get information about a distribution tenant	Read	<a href="#">distribution-tenant*</a>		
<a href="#">GetDistributionTenantByDomain</a>	Grants permission to get information about a distribution tenant by the associated domain	Read	<a href="#">distribution-tenant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFieldLevelEncryption</a>	Grants permission to get the field-level encryption configuration information	Read	<a href="#">field-level-encryption-conf</a> <a href="#">ig*</a>		
<a href="#">GetFieldLevelEncryptionConfig</a>	Grants permission to get the field-level encryption configuration information	Read	<a href="#">field-level-encryption-conf</a> <a href="#">ig*</a>		
<a href="#">GetFieldLevelEncryptionProfile</a>	Grants permission to get the field-level encryption configuration information	Read	<a href="#">field-level-encryption-profile*</a>		
<a href="#">GetFieldLevelEncryptionProfileConfig</a>	Grants permission to get the field-level encryption profile configuration information	Read	<a href="#">field-level-encryption-profile*</a>		
<a href="#">GetFunction</a>	Grants permission to get a CloudFront function's code	Read	<a href="#">function*</a>		
<a href="#">GetInvalidation</a>	Grants permission to get the information about an invalidation	Read	<a href="#">distribution*</a>		
<a href="#">GetInvalidationForDistributionTenant</a>	Grants permission to get information about an invalidation for a distribution tenant	Read	<a href="#">distribution-tenant*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetKeyGroup</a>	Grants permission to get a key group	Read			
<a href="#">GetKeyGroupConfig</a>	Grants permission to get a key group configuration	Read			
<a href="#">GetManagedCertificateDetails</a>	Grants permission to get details about a CloudFront managed certificate	Read	<a href="#">distribution-tenant*</a>		
<a href="#">GetMonitoringSubscription</a>	Grants permission to get information about whether additional CloudWatch metrics are enabled for the specified CloudFront distribution	Read			
<a href="#">GetOriginAccessControl</a>	Grants permission to get the origin access control	Read	<a href="#">origin-access-control*</a>		
<a href="#">GetOriginAccessControlConfig</a>	Grants permission to get the origin access control configuration	Read	<a href="#">origin-access-control*</a>		
<a href="#">GetOriginRequestPolicy</a>	Grants permission to get the origin request policy	Read	<a href="#">origin-request-policy*</a>		
<a href="#">GetOriginRequestPolicyConfig</a>	Grants permission to get the origin request policy configuration	Read	<a href="#">origin-request-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPublicKey</a>	Grants permission to get the public key information	Read			
<a href="#">GetPublicKeyConfig</a>	Grants permission to get the public key configuration information	Read			
<a href="#">GetRealtimeLogConfig</a>	Grants permission to get a real-time log configuration	Read	<a href="#">realtime-log-config*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to get the information about a resource's policy document	Read	<a href="#">vpcorigin</a>		
<a href="#">GetResponseHeadersPolicy</a>	Grants permission to get the response headers policy	Read	<a href="#">response-headers-policy*</a>		
<a href="#">GetResponseHeadersPolicyConfig</a>	Grants permission to get the response headers policy configuration	Read	<a href="#">response-headers-policy*</a>		
<a href="#">GetSavingsPlan</a> [permission only]	Grants permission to get a savings plan	Read			
<a href="#">GetStreamingDistribution</a>	Grants permission to get the information about an RTMP distribution	Read	<a href="#">streaming-distribution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetStreamingDistributionConfig</a>	Grants permission to get the configuration information about a streaming distribution	Read	<a href="#">streaming-distribution*</a>		
<a href="#">GetTrustStore</a>	Grants permission to get information about a trust store	Read	<a href="#">trust-store*</a>		
<a href="#">GetVpcOrigin</a>	Grants permission to get the information about a VPC origin	Read	<a href="#">vpcorigin*</a>		
<a href="#">ListAnycastIpLists</a>	Grants permission to list your Anycast static IP lists	List			
<a href="#">ListCachePolicies</a>	Grants permission to list all cache policies that have been created in CloudFront for this account	List			
<a href="#">ListCloudFrontOriginAccessIdentities</a>	Grants permission to list your CloudFront origin access identities	List			
<a href="#">ListConflictingAliases</a>	Grants permission to list all aliases that conflict with the given alias in CloudFront	List	<a href="#">distribution*</a>		
<a href="#">ListConnectionFunctions</a>	Grants permission to list the connection functions in your AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConnectionGroups</a>	Grants permission to list the connection groups in your AWS account	List			
<a href="#">ListContinuousDeploymentPolicies</a>	Grants permission to list all continuous-deployment policies in the account	List			
<a href="#">ListDistributionTenants</a>	Grants permission to list the distribution tenants in your AWS account	List			
<a href="#">ListDistributionTenantsByCustomization</a>	Grants permission to list the distribution tenants by the customization that you specify	List			
<a href="#">ListDistributions</a>	Grants permission to list the distributions associated with your AWS account	List			
<a href="#">ListDistributionsByAnycastIpListId</a>	Grants permission to list the distributions in your account that are associated with the specified AnycastIpListId	List			
<a href="#">ListDistributionsByCachePolicyId</a>	Grants permission to list distribution IDs for distributions that have a cache behavior that's associated with the specified cache policy	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDistributionsByConnectionFunction</a>	Grants permission to list summaries for distributions associated with the specified connection function	List	<a href="#">connection-function*</a>		
<a href="#">ListDistributionsByConnectionMode</a>	Grants permission to list the distributions by the specified connection mode	List			
<a href="#">ListDistributionsByKeyGroup</a>	Grants permission to list distribution IDs for distributions that have a cache behavior that's associated with the specified key group	List			
<a href="#">ListDistributionsByLambdaFunction</a> [permission only]	Grants permission to list the distributions associated a Lambda function	List			
<a href="#">ListDistributionsByOriginRequestPolicyId</a>	Grants permission to list distribution IDs for distributions that have a cache behavior that's associated with the specified origin request policy	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDistributionsByRealtimeLogConfig</a>	Grants permission to get a list of distributions that have a cache behavior that's associated with the specified real-time log configuration	List			
<a href="#">ListDistributionsByResponseHeadersPolicyId</a>	Grants permission to list distribution IDs for distributions that have a cache behavior that's associated with the specified response headers policy	List			
<a href="#">ListDistributionsByTrustStore</a>	Grants permission to list summaries for distributions associated with the specified trust store	List	<a href="#">trust-store*</a>		
<a href="#">ListDistributionsByVpcOriginId</a>	Grants permission to list IDs for distributions associated with the specified VPC origin	List			
<a href="#">ListDistributionsByWebACLId</a>	Grants permission to list the distributions associated with your AWS account with given AWS WAF web ACL	List			
<a href="#">ListDomainConflicts</a>	Grants permission to list domain conflicts for a specified domain	List	<a href="#">distribution</a> <a href="#">distribution-tenant</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFieldLevelEncryptionConfigs</a>	Grants permission to list all field-level encryption configurations that have been created in CloudFront for this account	List			
<a href="#">ListFieldLevelEncryptionProfiles</a>	Grants permission to list all field-level encryption profiles that have been created in CloudFront for this account	List			
<a href="#">ListFunctions</a>	Grants permission to get a list of CloudFront functions	List			
<a href="#">ListInvalidations</a>	Grants permission to list your invalidation batches	List	<a href="#">distribution*</a>		
<a href="#">ListInvalidationsForDistributionTenant</a>	Grants permission to list the invalidations for a distribution tenant	List	<a href="#">distribution-tenant*</a>		
<a href="#">ListKeyGroups</a>	Grants permission to list all key groups that have been created in CloudFront for this account	List			
<a href="#">ListKeyValueStores</a>	Grants permission to get a list of CloudFront KeyValueStores	List			
<a href="#">ListOriginAccessControls</a>	Grants permission to list all origin access controls in the account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOriginRequestPolicies</a>	Grants permission to list all origin request policies that have been created in CloudFront for this account	List			
<a href="#">ListPublicKeys</a>	Grants permission to list all public keys that have been added to CloudFront for this account	List			
<a href="#">ListRateCards</a> [permission only]	Grants permission to list CloudFront rate cards for the account	List			
<a href="#">ListRealtimeLogConfigs</a>	Grants permission to get a list of real-time log configurations	List			
<a href="#">ListResponseHeadersPolicies</a>	Grants permission to list all response headers policies that have been created in CloudFront for this account	List			
<a href="#">ListSavingsPlans</a> [permission only]	Grants permission to list savings plans in the account	List			
<a href="#">ListStreamingDistributions</a>	Grants permission to list your RTMP distributions	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a CloudFront resource	Read	<a href="#">anycast-ip-list</a>		
			<a href="#">connection-function</a>		
			<a href="#">connection-group</a>		
			<a href="#">distribution</a>		
			<a href="#">distribution-tenant</a>		
			<a href="#">trust-store</a>		
			<a href="#">vpcorigin</a>		
<a href="#">ListTrustStores</a>	Grants permission to list the trust stores in your AWS account	List			
<a href="#">ListUsages</a> [permission only]	Grants permission to list CloudFront usage	List			
<a href="#">ListVpcOrigins</a>	Grants permission to list VPC origins	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PublishConnectionFunction</a>	Grants permission to publish a connection function	Write	<a href="#">connection-function*</a>		
<a href="#">PublishFunction</a>	Grants permission to publish a CloudFront function	Write	<a href="#">function*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to update or create a resource's policy document	Write	<a href="#">vpcorigin</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a CloudFront resource	Tagging	<a href="#">anycast-ip-list</a>		
			<a href="#">connection-function</a>		
			<a href="#">connection-group</a>		
			<a href="#">distribution</a>		
			<a href="#">distribution-tenant</a>		
			<a href="#">streaming-distribution</a>		
			<a href="#">trust-store</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpcorigin</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TestConnectionFunction</a>	Grants permission to test a connection function	Write	<a href="#">connection-function*</a>		
<a href="#">TestFunction</a>	Grants permission to test a CloudFront function	Write	<a href="#">function*</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a CloudFront resource	Tagging	<a href="#">anycast-ip-list</a> <a href="#">connection</a> <a href="#">connection-group</a> <a href="#">distribution</a> <a href="#">distribution-tenant</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">streaming-distribution</a>		
			<a href="#">trust-store</a>		
			<a href="#">vpcorigin</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAnycastIpList</a>	Grants permission to update an Anycast static IP list	Write	<a href="#">anycast-ip-list*</a>		
<a href="#">UpdateCachePolicy</a>	Grants permission to update a cache policy	Write	<a href="#">cache-policy*</a>		
<a href="#">UpdateCloudFrontOriginAccessIdentity</a>	Grants permission to set the configuration for a CloudFront origin access identity	Write	<a href="#">origin-access-identity*</a>		
<a href="#">UpdateConnectionFunction</a>	Grants permission to update a connection function	Write	<a href="#">connection-function*</a>		
<a href="#">UpdateConnectionGroup</a>	Grants permission to update a connection group	Write	<a href="#">connection-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContinuousDeploymentPolicy</a>	Grants permission to update a continuous-deployment policy	Write	<a href="#">continuous-deployment-policy*</a>		
<a href="#">UpdateDistribution</a>	Grants permission to update the configuration for a web distribution	Write	<a href="#">distribution*</a>		
<a href="#">UpdateDistributionTenant</a>	Grants permission to update a distribution tenant	Write	<a href="#">distribution-tenant*</a>		
<a href="#">UpdateDistributionWithStagingConfig</a>	Grants permission to copy the configuration from a staging web distribution to its corresponding primary web distribution	Write	<a href="#">distribution*</a>		
<a href="#">UpdateDomainAssociation</a>	Grants permission to update a domain association	Write	<a href="#">distribution</a>		
			<a href="#">distribution-tenant</a>		
<a href="#">UpdateFieldLevelEncryptionConfig</a>	Grants permission to update a field-level encryption configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFieldLevelEncryptionProfile</a>	Grants permission to update a field-level encryption profile	Write	<a href="#">field-level-encryption-profile*</a>		
<a href="#">UpdateFunction</a>	Grants permission to update a CloudFront function	Write	<a href="#">function*</a>		
<a href="#">UpdateKeyGroup</a>	Grants permission to update a key group	Write			
<a href="#">UpdateKeyValueStore</a>	Grants permission to update a CloudFront KeyValueStore	Write	<a href="#">key-value-store*</a>		
<a href="#">UpdateOriginAccessControl</a>	Grants permission to update an origin access control	Write	<a href="#">origin-access-control*</a>		
<a href="#">UpdateOriginRequestPolicy</a>	Grants permission to update an origin request policy	Write	<a href="#">origin-request-policy*</a>		
<a href="#">UpdatePublicKey</a>	Grants permission to update public key information	Write			
<a href="#">UpdateRealtimeLogConfig</a>	Grants permission to update a real-time log configuration	Write	<a href="#">realtime-log-config*</a>		
<a href="#">UpdateResponseHeadersPolicy</a>	Grants permission to update a response headers policy	Write	<a href="#">response-headers-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSavingsPlans</a> [permission only]	Grants permission to update a savings plan	Write			
<a href="#">UpdateStreamingDistribution</a>	Grants permission to update the configuration for an RTMP distribution	Write	<a href="#">streaming-distribution*</a>		
<a href="#">UpdateTrustStore</a>	Grants permission to update a trust store	Write	<a href="#">trust-store*</a>		
<a href="#">UpdateVpcOrigin</a>	Grants permission to update a VPC origin	Write	<a href="#">vpcorigin*</a>		
<a href="#">VerifyDnsConfiguration</a>	Grants permission to verify the DNS configuration for a specified domain	Read	<a href="#">distribution-tenant</a>		

## Resource types defined by Amazon CloudFront

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">distribution</a>	arn:\${Partition}:cloudfront::\${Account}:distribution/\${DistributionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">streaming-distribution</a>	arn:\${Partition}:cloudfront::\${Account}:streaming-distribution/\${DistributionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">origin-access-identity</a>	arn:\${Partition}:cloudfront::\${Account}:origin-access-identity/\${Id}	
<a href="#">field-level-encryption-config</a>	arn:\${Partition}:cloudfront::\${Account}:field-level-encryption-config/\${Id}	
<a href="#">field-level-encryption-profile</a>	arn:\${Partition}:cloudfront::\${Account}:field-level-encryption-profile/\${Id}	
<a href="#">cache-policy</a>	arn:\${Partition}:cloudfront::\${Account}:cache-policy/\${Id}	
<a href="#">origin-request-policy</a>	arn:\${Partition}:cloudfront::\${Account}:origin-request-policy/\${Id}	
<a href="#">realtime-log-config</a>	arn:\${Partition}:cloudfront::\${Account}:realtime-log-config/\${Name}	
<a href="#">function</a>	arn:\${Partition}:cloudfront::\${Account}:function/\${Name}	
<a href="#">key-value-store</a>	arn:\${Partition}:cloudfront::\${Account}:key-value-store/\${Name}	
<a href="#">response-headers-policy</a>	arn:\${Partition}:cloudfront::\${Account}:response-headers-policy/\${Id}	
<a href="#">origin-access-control</a>	arn:\${Partition}:cloudfront::\${Account}:origin-access-control/\${Id}	



Resource types	ARN	Condition keys
<a href="#">continuous-deployment-policy</a>	arn:\${Partition}:cloudfront::\${Account}:continuous-deployment-policy/\${Id}	
<a href="#">anycast-ip-list</a>	arn:\${Partition}:cloudfront::\${Account}:anycast-ip-list/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vpcorigin</a>	arn:\${Partition}:cloudfront::\${Account}:vpcorigin/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">distribution-tenant</a>	arn:\${Partition}:cloudfront::\${Account}:distribution-tenant/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connection-group</a>	arn:\${Partition}:cloudfront::\${Account}:connection-group/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">trust-store</a>	arn:\${Partition}:cloudfront::\${Account}:trust-store/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connection-function</a>	arn:\${Partition}:cloudfront::\${Account}:connection-function/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudFront

Amazon CloudFront defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudFront KeyValueStore

Amazon CloudFront KeyValueStore (service prefix: `cloudfront-keyvaluestore`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudFront KeyValueStore](#)
- [Resource types defined by Amazon CloudFront KeyValueStore](#)
- [Condition keys for Amazon CloudFront KeyValueStore](#)

## Actions defined by Amazon CloudFront KeyValueStore

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteKey</a>	Grants permission to delete the key value pair specified by the key	Write	<a href="#">key-value-store*</a>		
<a href="#">DescribeKeyValueStore</a>	Grants permission to return metadata information about Key Value Store	Read	<a href="#">key-value-store*</a>		
<a href="#">GetKey</a>	Grants permission to return a key value pair	Read	<a href="#">key-value-store*</a>		
<a href="#">ListKeys</a>	Grants permission to returns a list of key value pairs	List	<a href="#">key-value-store*</a>		
<a href="#">PutKey</a>	Grants permission to create a new key value pair or replace the value of an existing key	Write	<a href="#">key-value-store*</a>		
<a href="#">UpdateKeys</a>	Grants permission to put or delete multiple key value pairs in a single, all-or-nothing operation	Write	<a href="#">key-value-store*</a>		

## Resource types defined by Amazon CloudFront KeyValueStore

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">key-value-store</a>	arn:\${Partition}:cloudfront::\${Account}:key-value-store/\${ResourceId}	

## Condition keys for Amazon CloudFront KeyValueCollection

CloudFront KeyValueCollection has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS CloudHSM

AWS CloudHSM (service prefix: `cloudhsm`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CloudHSM](#)
- [Resource types defined by AWS CloudHSM](#)
- [Condition keys for AWS CloudHSM](#)

## Actions defined by AWS CloudHSM

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyBackupToRegion</a>	Grants permission to create a copy of a backup in the specified region	Write	<a href="#">backup*</a>		cloudhsm: CopyBackupToRegion  cloudhsm: TagResource  cloudhsm: UntagResource
<a href="#">CreateCluster</a>	Grants permission to create a new AWS CloudHSM cluster	Write	<a href="#">backup</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	cloudhsm: TagResource  ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:CreateSecurityGroup ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:RevokeSecurityGroupEgress iam:CreateServiceLinkedRole
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHsm</a>	Grants permission to create a new hardware security module (HSM) in the specified AWS CloudHSM cluster	Write	<a href="#">cluster*</a>		ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateSecurityGroup  ec2:DeleteNetworkInterface  ec2:DescribeNetworkInterfaces  ec2:DescribeSecurityGroups  ec2:DescribeSubnets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:RevokeSecurityGroupEgress
<a href="#">DeleteBackup</a>	Grants permission to delete the specified CloudHSM backup	Write	<a href="#">backup*</a>		
<a href="#">DeleteCluster</a>	Grants permission to delete the specified AWS CloudHSM cluster	Write	<a href="#">cluster*</a>		ec2:DeleteNetworkInterface  ec2:DeleteSecurityGroup
<a href="#">DeleteHsm</a>	Grants permission to delete the specified HSM	Write			ec2:DeleteNetworkInterface
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the policy attached to CloudHSM resources	Write	<a href="#">backup*</a>		
<a href="#">DescribeBackups</a>	Grants permission to get information about backups of AWS CloudHSM clusters	Read			
<a href="#">DescribeClusters</a>	Grants permission to get information about AWS CloudHSM clusters	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourcePolicy</a>	Grants permission to get information about the policy attached to a AWS CloudHSM resource	Read	<a href="#">backup*</a>		
<a href="#">InitializeCluster</a>	Grants permission to claim an AWS CloudHSM cluster	Write	<a href="#">cluster*</a>		
<a href="#">ListTags</a>	Grants permission to get a list of tags for the specified AWS CloudHSM cluster	Read	<a href="#">backup</a>		
			<a href="#">cluster</a>		
<a href="#">ModifyBackupAttributes</a>	Grants permission to modify attributes for an AWS CloudHSM backup	Write	<a href="#">backup*</a>		
<a href="#">ModifyCluster</a>	Grants permission to modify AWS CloudHSM cluster	Write	<a href="#">cluster*</a>		ec2:DescribeSubnets
<a href="#">PutResourcePolicy</a>	Grants permission to attach a policy to an AWS CloudHSM resource	Write	<a href="#">backup*</a>		
<a href="#">RestoreBackup</a>	Grants permission to restore the specified CloudHSM backup	Write	<a href="#">backup*</a>		
<a href="#">TagResource</a>	Grants permission to add or overwrite one or more tags for the specified AWS CloudHSM cluster	Tagging	<a href="#">backup</a>		
			<a href="#">cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tag or tags from the specified AWS CloudHSM cluster	Tagging	<a href="#">backup</a> <a href="#">cluster</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS CloudHSM

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">backup</a>	arn:\${Partition}:cloudhsm:\${Region}:\${Account}:backup/\${CloudHsmBackupInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:cloudhsm:\${Region}:\${Account}:cluster/\${CloudHsmClusterInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CloudHSM

AWS CloudHSM defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudSearch

Amazon CloudSearch (service prefix: `cloudsearch`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CloudSearch](#)
- [Resource types defined by Amazon CloudSearch](#)
- [Condition keys for Amazon CloudSearch](#)

## Actions defined by Amazon CloudSearch

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTags</a>	Attaches resource tags to an Amazon CloudSearch domain	Tagging	<a href="#">domain*</a>		
<a href="#">BuildSuggesters</a>	Indexes the search suggestions	Write	<a href="#">domain*</a>		
<a href="#">CreateDomain</a>	Creates a new search domain	Write	<a href="#">domain*</a>		
<a href="#">DefineAnalysisScheme</a>	Configures an analysis scheme that can be applied to a text or text-array field to define language-specific text processing options	Write	<a href="#">domain*</a>		
<a href="#">DefineExpression</a>	Configures an Expression for the search domain	Write	<a href="#">domain*</a>		
<a href="#">DefineIndexField</a>	Configures an IndexField for the search domain	Write	<a href="#">domain*</a>		
<a href="#">DefineSuggester</a>	Configures a suggester for a domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAnalysisScheme</a>	Deletes an analysis scheme	Write	<a href="#">domain*</a>		
<a href="#">DeleteDomain</a>	Permanently deletes a search domain and all of its data	Write	<a href="#">domain*</a>		
<a href="#">DeleteExpression</a>	Removes an Expression from the search domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteIndexField</a>	Removes an IndexField from the search domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteSuggester</a>	Deletes a suggester	Write	<a href="#">domain*</a>		
<a href="#">DescribeAnalysisSchemes</a>	Gets the analysis schemes configured for a domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeAvailabilityOptions</a>	Gets the availability options configured for a domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomainEndpointOptions</a>	Gets the domain endpoint options configured for a domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomains</a>	Gets information about the search domains owned by this account	List	<a href="#">domain*</a>		
<a href="#">DescribeExpressions</a>	Gets the expressions configured for the search domain	Read	<a href="#">domain*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeIndexFields</a>	Gets information about the index fields configured for the search domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeScalingParameters</a>	Gets the scaling parameters configured for a domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeServiceAccessPolicies</a>	Gets information about the access policies that control access to the domain's document and search endpoints	Read	<a href="#">domain*</a>		
<a href="#">DescribeSuggesters</a>	Gets the suggesters configured for a domain	Read	<a href="#">domain*</a>		
<a href="#">IndexDocuments</a>	Tells the search domain to start indexing its documents using the latest indexing options	Write	<a href="#">domain*</a>		
<a href="#">ListDomainNames</a>	Lists all search domains owned by an account	List	<a href="#">domain*</a>		
<a href="#">ListTags</a>	Displays all of the resource tags for an Amazon CloudSearch domain	Read	<a href="#">domain*</a>		
<a href="#">RemoveTags</a>	Removes the specified resource tags from an Amazon ES domain	Tagging	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAvailabilityOptions</a>	Configures the availability options for a domain	Write	<a href="#">domain*</a>		
<a href="#">UpdateDomainEndpointOptions</a>	Configures the domain endpoint options for a domain	Write	<a href="#">domain*</a>		
<a href="#">UpdateScalingParameters</a>	Configures scaling parameters for a domain	Write	<a href="#">domain*</a>		
<a href="#">UpdateServiceAccessPolicies</a>	Configures the access rules that control access to the domain's document and search endpoints	Permissions management	<a href="#">domain*</a>		
<a href="#">document</a> [permission only]	Allows access to the document service operations	Write	<a href="#">domain</a>		
<a href="#">search</a> [permission only]	Allows access to the search operations	Read	<a href="#">domain</a>		
<a href="#">suggest</a> [permission only]	Allows access to the suggest operations	Read	<a href="#">domain</a>		

## Resource types defined by Amazon CloudSearch

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

For information about using Amazon CloudSearch resource ARNs in an IAM policy, see [Amazon CloudSearch ARNs](#) in the *Amazon CloudSearch Developer Guide*.

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:cloudsearch:\${Region}:\${Account}:domain/\${DomainName}	

## Condition keys for Amazon CloudSearch

CloudSearch has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS CloudShell

AWS CloudShell (service prefix: `cloudshell`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CloudShell](#)
- [Resource types defined by AWS CloudShell](#)

- [Condition keys for AWS CloudShell](#)

## Actions defined by AWS CloudShell

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApproveCommand</a> [permission only]	Grants permission to approve a command sent by another AWS service	Read	<a href="#">Environment*</a>		
<a href="#">CreateEnvironment</a> [permission only]	Grants permissions to create a CloudShell environment	Write		<a href="#">cloudshell:SecurityGroupIds</a>  <a href="#">cloudshell:SubnetIds</a>  <a href="#">cloudshell:VpcIds</a>	
<a href="#">CreateSession</a> [permission only]	Grants permissions to connect to a CloudShell environment from the AWS Management Console	Write	<a href="#">Environment*</a>		
<a href="#">DeleteEnvironment</a>	Grants permission to delete a CloudShell environment	Write	<a href="#">Environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">DescribeEnvironments</a> [permission only]	Grants permission to return descriptions of existing user's environments	List			
<a href="#">GetEnvironmentStatus</a> [permission only]	Grants permission to read a CloudShell environment status	Read	<a href="#">Environment*</a>		
<a href="#">GetFileDownloadUrls</a> [permission only]	Grants permissions to download files from a CloudShell environment	Write	<a href="#">Environment*</a>		
<a href="#">GetFileUploadUrls</a> [permission only]	Grants permissions to upload files to a CloudShell environment	Write	<a href="#">Environment*</a>		
<a href="#">PutCredentials</a> [permission only]	Grants permissions to forward console credentials to the environment	Write	<a href="#">Environment*</a>		
<a href="#">StartEnvironment</a> [permission only]	Grants permission to start a stopped CloudShell environment	Write	<a href="#">Environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopEnvironment</a> [permission only]	Grants permission to stop a running CloudShell environment	Write	<a href="#">Environment*</a>		

## Resource types defined by AWS CloudShell

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Environment</a>	arn:\${Partition}:cloudshell:\${Region}:\${Account}:environment/\${EnvironmentId}	

## Condition keys for AWS CloudShell

AWS CloudShell defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">cloudshell:SecurityGroupIds</a>	Filters access by security group ids. Available during CreateEnvironment operation	ArrayOfString
<a href="#">cloudshell:SubnetIds</a>	Filters access by subnet ids. Available during CreateEnvironment operation	ArrayOfString
<a href="#">cloudshell:VpcIds</a>	Filters access by vpc ids. Available during CreateEnvironment operation	ArrayOfString

## Actions, resources, and condition keys for AWS CloudTrail

AWS CloudTrail (service prefix: `cloudtrail`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CloudTrail](#)
- [Resource types defined by AWS CloudTrail](#)
- [Condition keys for AWS CloudTrail](#)

## Actions defined by AWS CloudTrail

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTags</a>	Grants permission to add one or more tags to a trail, event data store, channel or dashboard, up to a limit of 50	Tagging	<a href="#">channel</a>		
			<a href="#">dashboard</a>		
			<a href="#">eventdatastore</a>		
			<a href="#">trail</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CancelQuery</a>	Grants permission to cancel a running query	Write	<a href="#">eventdatastore*</a>		
<a href="#">CreateChannel</a>	Grants permission to create a channel	Write	<a href="#">channel*</a>		cloudtrail:AddTags
			<a href="#">eventdatastore*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDashboard</a>	Grants permission to create a dashboard	Write	<a href="#">dashboard*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	cloudtrail:AddTags  cloudtrail:StartDashboardRefresh  cloudtrail:StartQuery

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEventDataStore</a>	Grants permission to create an event data store	Write	<a href="#">eventdatastore*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	cloudtrail:AddTags  iam:CreateServiceLinkedRole  iam:GetRole  kms:Decrypt  kms:GenerateDataKey  organizations:ListAWSServiceAccessForOrganization

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServiceLinkedChannel</a> [permission only]	Grants permission to create a service-linked channel that specifies the settings for delivery of log data to an AWS service	Write	<a href="#">channel*</a>		
<a href="#">CreateTrail</a>	Grants permission to create a trail that specifies the settings for delivery of log data to an Amazon S3 bucket	Write	<a href="#">trail*</a>		cloudtrail:AddTags  iam:CreateServiceLinkedRole  iam:GetRole  organizations:ListAWSServiceAccessForOrganization
<a href="#">DeleteChannel</a>	Grants permission to delete a channel	Write	<a href="#">channel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDashboard</a>	Grants permission to delete a dashboard	Write	<a href="#">dashboard*</a>		
<a href="#">DeleteEventDataStore</a>	Grants permission to delete an event data store	Write	<a href="#">eventdatastore*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy from the provided resource	Write	<a href="#">channel</a>		
			<a href="#">dashboard</a>		
			<a href="#">eventdatastore</a>		
<a href="#">DeleteServiceLinkedChannel</a> [permission only]	Grants permission to delete a service-linked channel	Write	<a href="#">channel*</a>		
<a href="#">DeleteTrail</a>	Grants permission to delete a trail	Write	<a href="#">trail*</a>		
<a href="#">DeregisterOrganizationDelegatedAdmin</a>	Grants permission to deregister an AWS Organizations member account as a delegated administrator	Write			organizations:DeregisterDelegatedAdministrator  organizations:ListAWSServiceAccessForOrganization

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeQuery</a>	Grants permission to list details for the query	Read	<a href="#">eventdatastore*</a>		
<a href="#">DescribeTrails</a>	Grants permission to list settings for the trails associated with the current region for your account	Read			
<a href="#">DisableFederation</a>	Grants permission to disable federation of event data store data by using the AWS Glue Data Catalog	Write	<a href="#">eventdatastore*</a>		glue:DeleteDatabase glue:DeleteTable glue:PassConnection lakeformation:DeregisterResource lakeformation:RegisterResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableFederation</a>	Grants permission to enable federation of event data store data by using the AWS Glue Data Catalog	Write	<a href="#">eventdatastore*</a>		glue:CreateDatabase glue:CreateTable iam:GetRole iam:PassRole lakeformation:DeregisterResource lakeformation:RegisterResource
<a href="#">GenerateQuery</a>	Grants permission to generate a query for a specified event data store using the CloudTrail Lake query generator	Write	<a href="#">eventdatastore*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateQueryResultsSummary</a> [permission only]	Grants permission to generate a results summary for specified queries using the CloudTrail natural language generator	Read	<a href="#">eventdatastore*</a>		cloudtrail:GetQueryResults  kms:Decrypt  kms:GenerateDataKey
<a href="#">GetChannel</a>	Grants permission to return information about a specific channel	Read	<a href="#">channel*</a>		
<a href="#">GetDashboard</a>	Grants permission to list settings for the dashboard	Read	<a href="#">dashboard*</a>		
<a href="#">GetEventConfiguration</a>	Grants permission to list event configurations that are configured for a trail or an event data store	Read	<a href="#">eventdatastore</a>  <a href="#">trail</a>		
<a href="#">GetEventDataStore</a>	Grants permission to list settings for the event data store	Read	<a href="#">eventdatastore*</a>		
<a href="#">GetEventDataStoreData</a>	Grants permission to get data from an event data store by using the AWS Glue Data Catalog	Read	<a href="#">eventdatastore*</a>		kms:Decrypt  kms:GenerateDataKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEventSelectors</a>	Grants permission to list settings for event selectors configured for a trail	Read	<a href="#">trail*</a>		
<a href="#">GetImport</a>	Grants permission to return information about a specific import	Read			
<a href="#">GetInsightsSelectors</a>	Grants permission to list CloudTrail Insights selectors that are configured for a trail or event data store	Read	<a href="#">eventdatastore</a> <a href="#">trail</a>		
<a href="#">GetQueryResults</a>	Grants permission to fetch results of a complete query	Read	<a href="#">eventdatastore*</a>		kms:Decrypt  kms:GenerateDataKey
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy attached to the provided resource	Read	<a href="#">channel</a> <a href="#">dashboard</a> <a href="#">eventdatastore</a>		
<a href="#">GetServiceLinkedChannel</a> [permission only]	Grants permission to list settings for the service-linked channel	Read	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTrail</a>	Grants permission to list settings for the trail	Read	<a href="#">trail*</a>		
<a href="#">GetTrailStatus</a>	Grants permission to retrieve a JSON-formatted list of information about the specified trail	Read	<a href="#">trail*</a>		
<a href="#">ListChannels</a>	Grants permission to list the channels in the current account, and their source names	List			
<a href="#">ListDashboards</a>	Grants permission to list dashboards associated with the current region for your account	List			
<a href="#">ListEventDataStores</a>	Grants permission to list event data stores associated with the current region for your account	List			
<a href="#">ListImportFailures</a>	Grants permission to return a list of failures for the specified import	Read			
<a href="#">ListImports</a>	Grants permission to return information on all imports, or a select set of imports by ImportStatus or Destination	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInsightsData</a>	Grants permission to retrieve data captured by CloudTrail Insights	List	<a href="#">trail*</a>		
<a href="#">ListPublicKeys</a>	Grants permission to list the public keys whose private keys were used to sign trail digest files within a specified time range	Read			
<a href="#">ListQueries</a>	Grants permission to list queries associated with an event data store	List	<a href="#">eventdatastore*</a>		
<a href="#">ListServiceLinkedChannels</a> [permission only]	Grants permission to list service-linked channels associated with the current region for a specified account	List			
<a href="#">ListTags</a>	Grants permission to list the tags for trails, event data stores, channels or dashboards in the current region	Read	<a href="#">channel</a>		
			<a href="#">dashboard</a>		
			<a href="#">eventdatastore</a>		
			<a href="#">trail</a>		
<a href="#">ListTrails</a>	Grants permission to list trails associated with the current region for your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LookupEvents</a>	Grants permission to look up and retrieve metric data for API activity events captured by CloudTrail that create, update, or delete resources in your account	Read			
<a href="#">PutEventConfiguration</a>	Grants permission to create and update event configurations for a trail or an event data store	Write	<a href="#">eventdatastore</a>		iam:CreateServiceLinkedRole iam:GetRole
			<a href="#">trail</a>		
<a href="#">PutEventSelectors</a>	Grants permission to create and update event selectors for a trail	Write	<a href="#">trail*</a>		
<a href="#">PutInsightSelectors</a>	Grants permission to create and update CloudTrail Insights selectors for a trail or event data store	Write	<a href="#">eventdatastore</a>		
			<a href="#">trail</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource policy to the provided resource	Write	<a href="#">channel</a>		
			<a href="#">dashboard</a>		
			<a href="#">eventdatastore</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterOrganizationDelegatedAdmin</a>	Grants permission to register an AWS Organizations member account as a delegated administrator	Write			iam:CreateServiceLinkedRole iam:GetRole organizations:ListAWSServiceAccessForOrganization organizations:RegisterDelegatedAdministrator
<a href="#">RemoveTags</a>	Grants permission to remove tags from a trail, event data store, channel or dashboard	Tagging	<a href="#">channel</a> <a href="#">dashboard</a> <a href="#">eventdatastore</a> <a href="#">trail</a>	<a href="#">aws:TagKeys</a>	
<a href="#">RestoreEventDataStore</a>	Grants permission to restore an event data store	Write	<a href="#">eventdatastore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchSampleQueries</a>	Grants permission to perform semantic search for CloudTrail Lake sample queries	Read			
<a href="#">StartDashboardRefresh</a>	Grants permission to start a refresh on the specified dashboard	Write	<a href="#">dashboard*</a>		cloudtrail:StartQuery
<a href="#">StartEventDataStoreIngestion</a>	Grants permission to start ingestion on an event data store	Write	<a href="#">eventdatastore*</a>		
<a href="#">StartImport</a>	Grants permission to start an import of logged trail events from a source S3 bucket to a destination event data store	Write			
<a href="#">StartLogging</a>	Grants permission to start the recording of AWS API calls and log file delivery for a trail	Write	<a href="#">trail*</a>		
<a href="#">StartQuery</a>	Grants permission to start a new query on a specified event data store	Write	<a href="#">eventdatastore*</a>		kms:Decrypt kms:GenerateDataKey
<a href="#">StopEventDataStoreIngestion</a>	Grants permission to stop ingestion on an event data store	Write	<a href="#">eventdatastore*</a>		
<a href="#">StopImport</a>	Grants permission to stop a specified import	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopLogging</a>	Grants permission to stop the recording of AWS API calls and log file delivery for a trail	Write	<a href="#">trail*</a>		
<a href="#">UpdateChannel</a>	Grants permission to update a channel	Write	<a href="#">channel*</a>		
<a href="#">UpdateDashboard</a>	Grants permission to update a dashboard	Write	<a href="#">dashboard*</a>		cloudtrail:StartDashboardRefresh  cloudtrail:StartQuery



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEventDataStore</a>	Grants permission to update an event data store	Write	<a href="#">eventdatastore*</a>		iam:CreateServiceLinkedRole  iam:GetRole  kms:Decrypt  kms:GenerateDataKey  organizations:ListAWSServiceAccessForOrganization
<a href="#">UpdateServiceLinkedChannel</a> [permission only]	Grants permission to update the service-linked channel settings for delivery of log data to an AWS service	Write	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTrail</a>	Grants permission to update the settings that specify delivery of log files	Write	<a href="#">trail*</a>		iam:CreateServiceLinkedRole  iam:GetRole  organizations:ListAWSServiceAccessForOrganization

## Resource types defined by AWS CloudTrail

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

For policies that control access to CloudTrail actions, the Resource element is always set to "\*". For information about using resource ARNs in an IAM policy, see [How AWS CloudTrail works with IAM](#) in the *AWS CloudTrail User Guide*.

Resource types	ARN	Condition keys
<a href="#">trail</a>	arn:\${Partition}:cloudtrail:\${Region}:\${Account}:trail/\${TrailName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">eventdatastore</a>	arn:\${Partition}:cloudtrail:\${Region}:\${Account}:eventdatastore/\${EventDataStoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">channel</a>	arn:\${Partition}:cloudtrail:\${Region}:\${Account}:channel/\${ChannelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dashboard</a>	arn:\${Partition}:cloudtrail:\${Region}:\${Account}:dashboard/\${DashboardName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CloudTrail

AWS CloudTrail defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for AWS CloudTrail Data

AWS CloudTrail Data (service prefix: `cloudtrail-data`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CloudTrail Data](#)
- [Resource types defined by AWS CloudTrail Data](#)
- [Condition keys for AWS CloudTrail Data](#)

### Actions defined by AWS CloudTrail Data

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAuditEvents</a>	Grants permission to ingest your application events into CloudTrail Lake	Write	<a href="#">channel*</a>		

## Resource types defined by AWS CloudTrail Data

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

For policies that control access to CloudTrail actions, the Resource element is always set to "\*". For information about using resource ARNs in an IAM policy, see [How AWS CloudTrail works with IAM](#) in the *AWS CloudTrail User Guide*.

Resource types	ARN	Condition keys
<a href="#">channel</a>	arn:\${Partition}:cloudtrail:\${Region}:\${Account}:channel/\${ChannelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CloudTrail Data

AWS CloudTrail Data defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch

Amazon CloudWatch (service prefix: `cloudwatch`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudWatch](#)
- [Resource types defined by Amazon CloudWatch](#)
- [Condition keys for Amazon CloudWatch](#)

## Actions defined by Amazon CloudWatch

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetServiceLevelIndicatorReport</a>	Grants permission to batch get service level indicator report	Read			
<a href="#">BatchGetServiceLevelObjectiveBudgetReport</a>	Grants permission to batch retrieve a service level objective budget report	Read	<a href="#">slo*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServiceLevelObjective</a>	Grants permission to create a service level objective	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAlarmMuteRule</a>	Grants permission to delete an alarm mute rule	Write	<a href="#">alarm-mute-rule*</a>		
<a href="#">DeleteAlarms</a>	Grants permission to delete a collection of alarms	Write	<a href="#">alarm*</a>		
<a href="#">DeleteAnomalyDetector</a>	Grants permission to delete the specified anomaly detection model from your account	Write			
<a href="#">DeleteDashboards</a>	Grants permission to delete all CloudWatch dashboards that you specify	Write	<a href="#">dashboard*</a>		
<a href="#">DeleteInsightRules</a>	Grants permission to delete a collection of insight rules	Write	<a href="#">insight-rule*</a>		
<a href="#">DeleteMetricStream</a>	Grants permission to delete the CloudWatch metric stream that you specify	Write	<a href="#">metric-stream*</a>		
<a href="#">DeleteServiceLevelObjective</a>	Grants permission to delete a service level objective	Write	<a href="#">slo*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAlarmHistory</a>	Grants permission to retrieve the history for the specified alarm	Read	<a href="#">alarm*</a>		
<a href="#">DescribeAlarms</a>	Grants permission to describe all alarms, currently owned by the user's account	Read	<a href="#">alarm*</a>		
<a href="#">DescribeAlarmsForMetric</a>	Grants permission to describe all alarms configured on the specified metric, currently owned by the user's account	Read			
<a href="#">DescribeAnomalyDetectors</a>	Grants permission to list the anomaly detection models that you have created in your account	Read			
<a href="#">DescribeInsightRules</a>	Grants permission to describe all insight rules, currently owned by the user's account	Read			
<a href="#">DisableAlarmActions</a>	Grants permission to disable actions for a collection of alarms	Write	<a href="#">alarm*</a>		
<a href="#">DisableInsightRules</a>	Grants permission to disable a collection of insight rules	Write	<a href="#">insight-rule*</a>		
<a href="#">EnableAlarmActions</a>	Grants permission to enable actions for a collection of alarms	Write	<a href="#">alarm*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableInsightRules</a>	Grants permission to enable a collection of insight rules	Write	<a href="#">insight-rule*</a>		
<a href="#">EnableTopologyDiscovery</a>	Grants permission to enable a CloudWatch topology discovery	Write			
<a href="#">GenerateQuery</a>	Grants permission to generate a Metrics Insights or Logs Insights query string from a natural language prompt	Read			
<a href="#">GenerateQueryResultsSummary</a>	Grants permission to generate a summary of CloudWatch LogInsights query results in natural language using generative AI	Read			
<a href="#">GetAlarmMuteRule</a>	Grants permission to get an alarm mute rule	Read	<a href="#">alarm-mute-rule*</a>		
<a href="#">GetDashboard</a>	Grants permission to display the details of the CloudWatch dashboard you specify	Read	<a href="#">dashboard*</a>		
<a href="#">GetInsightRuleReport</a>	Grants permission to return the top-N report of unique contributors over a time range for a given insight rule	Read	<a href="#">insight-rule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMetricData</a>	Grants permission to retrieve batch amounts of CloudWatch metric data and perform metric math on retrieved data	Read			
<a href="#">GetMetricStatistics</a>	Grants permission to retrieve statistics for the specified metric	Read			
<a href="#">GetMetricStream</a>	Grants permission to return the details of a CloudWatch metric stream	Read	<a href="#">metric-stream*</a>		
<a href="#">GetMetricWidgetImage</a>	Grants permission to retrieve snapshots of metric widgets	Read			
<a href="#">GetService</a>	Grants permission to retrieve information about a service	Read	<a href="#">service*</a>		
<a href="#">GetServiceData</a> [permission only]	Grants permission to retrieve service data	Read	<a href="#">service*</a>		
<a href="#">GetServiceLevelObjective</a>	Grants permission to retrieve information about service level objective	Read	<a href="#">slo*</a>		
<a href="#">GetTopologyDiscoveryStatus</a> [permission only]	Grants permission to retrieve a CloudWatch topology discovery status	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTopologyMap</a>	Grants permission to retrieve a CloudWatch topology map	Read			
<a href="#">Link</a> [permission only]	Grants permission to share CloudWatch resources with a monitoring account	Write			
<a href="#">ListAlarmMuteRules</a>	Grants permission to retrieve a list of alarm mute rules owned by the user's account	List	<a href="#">alarm-mute-rule*</a>		
<a href="#">ListDashboards</a>	Grants permission to return a list of all CloudWatch dashboards in your account	List			
<a href="#">ListEntitiesForMetric</a> [permission only]	Grants permission to retrieve all the entities that are emitting a given metric	List			
<a href="#">ListManagedInsightRules</a>	Grants permission to list available managed Insight Rules for a given Resource ARN	Read		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cloudwatch:requestManagedResourceARNs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMetricStreams</a>	Grants permission to return a list of all CloudWatch metric streams in your account	List			
<a href="#">ListMetrics</a>	Grants permission to retrieve a list of valid metrics stored for the AWS account owner	List			
<a href="#">ListServiceLevelObjectives</a>	Grants permission to list service level objectives	List			
<a href="#">ListServices</a>	Grants permission to list services	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an Amazon CloudWatch resource	List	<a href="#">alarm</a>		
			<a href="#">alarm-mute-rule</a>		
			<a href="#">insight-rule</a>		
			<a href="#">slo</a>		
	<b>SCENARIO:</b> CloudWatch-Alarm		<a href="#">alarm*</a>		
<b>SCENARIO:</b> CloudWatch-AlarmMuteRule		<a href="#">alarm-mute-rule*</a>			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO:</b> CloudWatch-InsightRule		<a href="#">insight-rule*</a>		
	<b>SCENARIO:</b> CloudWatch-ServiceLevelObjective		<a href="#">slo*</a>		
<a href="#">PutAlarmMuteRule</a>	Grants permission to create or update an alarm mute rule	Write	<a href="#">alarm-mute-rule*</a>		
			<a href="#">alarm</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">PutAnomalyDetector</a>	Grants permission to create or update an anomaly detection model for a CloudWatch metric	Write			
<a href="#">PutCompositeAlarm</a>	Grants permission to create or update a composite alarm	Write	<a href="#">alarm*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cloudwatch:AlarmActions</a>	
<a href="#">PutDashboard</a>	Grants permission to create a CloudWatch dashboard, or update an existing dashboard if it already exists	Write	<a href="#">dashboard*</a>		
<a href="#">PutInsightRule</a>	Grants permission to create a new insight rule or replace an existing insight rule	Write	<a href="#">insight-rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">cloudwatch:requestInsightRuleLogGroups</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutManagedInsightRules</a>	Grants permission to create managed Insight Rules	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cloudwatch:requestManagedResourceARNs</a>	
<a href="#">PutMetricAlarm</a>	Grants permission to create or update an alarm and associates it with the specified Amazon CloudWatch metric	Write	<a href="#">alarm*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">cloudwatch:AlarmActions</a>	
<a href="#">PutMetricData</a>	Grants permission to publish metric data points to Amazon CloudWatch	Write		<a href="#">cloudwatch:namespace</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutMetricStream</a>	Grants permission to create a CloudWatch metric stream, or update an existing metric stream if it already exists	Write	<a href="#">metric-stream*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">SetAlarmState</a>	Grants permission to temporarily set the state of an alarm for testing purposes	Write	<a href="#">alarm*</a>		
<a href="#">StartMetricStreams</a>	Grants permission to start all CloudWatch metric streams that you specify	Write	<a href="#">metric-stream*</a>		
<a href="#">StopMetricStreams</a>	Grants permission to stop all CloudWatch metric streams that you specify	Write	<a href="#">metric-stream*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to an Amazon CloudWatch resource	Tagging	<a href="#">alarm</a>		
			<a href="#">alarm-mute-rule</a>		
			<a href="#">insight-rule</a>		
			<a href="#">slo</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
	<b>SCENARIO:</b> CloudWatch-Alarm		<a href="#">alarm*</a>		
	<b>SCENARIO:</b> CloudWatch-AlarmMuteRule		<a href="#">alarm-mute-rule*</a>		
	<b>SCENARIO:</b> CloudWatch-InsightRule		<a href="#">insight-rule*</a>		
	<b>SCENARIO:</b> CloudWatch-ServiceLevelObjective		<a href="#">slo*</a>		
<a href="#">UntagResource</a>	Grants permission to remove a tag from an Amazon CloudWatch resource	Tagging	<a href="#">alarm</a> <a href="#">alarm-mute-rule</a> <a href="#">insight-rule</a> <a href="#">slo</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO:</b> CloudWatch-Alarm		<a href="#">alarm*</a>		
	<b>SCENARIO:</b> CloudWatch-AlarmMuteRule		<a href="#">alarm-mute-rule*</a>		
	<b>SCENARIO:</b> CloudWatch-InsightRule		<a href="#">insight-rule*</a>		
	<b>SCENARIO:</b> CloudWatch-ServiceLevelObjective		<a href="#">slo*</a>		
<a href="#">UpdateServiceLevelObjective</a>	Grants permission to update a service level objective	Write	<a href="#">slo*</a>		

## Resource types defined by Amazon CloudWatch

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">alarm</a>	arn:\${Partition}:cloudwatch:\${Region}:\${Account}:alarm:\${AlarmName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">alarm-mute-rule</a>	arn:\${Partition}:cloudwatch:\${Region}:\${Account}:alarm-mute-rule:\${AlarmMuteRuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dashboard</a>	arn:\${Partition}:cloudwatch:::\${Account}:dashboard/\${DashboardName}	
<a href="#">insight-rule</a>	arn:\${Partition}:cloudwatch:\${Region}:\${Account}:insight-rule/\${InsightRuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">metric-stream</a>	arn:\${Partition}:cloudwatch:\${Region}:\${Account}:metric-stream/\${MetricStreamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">slo</a>	arn:\${Partition}:cloudwatch:\${Region}:\${Account}:slo/\${SloName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service</a>	arn:\${Partition}:cloudwatch:\${Region}:\${Account}:service/\${ServiceName}-\${UniqueAttributesHex}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch

Amazon CloudWatch defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of mandatory tags in the request	ArrayOfString
<a href="#">cloudwatch:AlarmActions</a>	Filters actions based on defined alarm actions	ArrayOfString
<a href="#">cloudwatch:namespace</a>	Filters actions based on the presence of optional namespace values	String
<a href="#">cloudwatch:requestInsightRuleLogGroups</a>	Filters actions based on the Log Groups specified in an Insight Rule	ArrayOfString
<a href="#">cloudwatch:requestManagedResourceARNs</a>	Filters access by the Resource ARNs specified in a managed Insight Rule	ArrayOfARN

## Actions, resources, and condition keys for Amazon CloudWatch Application Insights

Amazon CloudWatch Application Insights (service prefix: `applicationinsights`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CloudWatch Application Insights](#)
- [Resource types defined by Amazon CloudWatch Application Insights](#)
- [Condition keys for Amazon CloudWatch Application Insights](#)

## Actions defined by Amazon CloudWatch Application Insights


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddWorkload</a>	Grants permission to add a workload	Write			
<a href="#">CreateApplication</a>	Grants permission to create an application from a resource group	Write			
<a href="#">CreateComponent</a>	Grants permission to create a component from a group of resources	Write			
<a href="#">CreateLogPattern</a>	Grants permission to create log a pattern	Write			
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteComponent</a>	Grants permission to delete a component	Write			
<a href="#">DeleteLogPattern</a>	Grants permission to delete a log pattern	Write			
<a href="#">DescribeApplication</a>	Grants permission to describe an application	Read			
<a href="#">DescribeComponent</a>	Grants permission to describe a component	Read			
<a href="#">DescribeComponentConfiguration</a>	Grants permission to describe a component's configuration	Read			
<a href="#">DescribeComponentConfigurationRecommendation</a>	Grants permission to describe the recommended application component configuration	Read			
<a href="#">DescribeLogPattern</a>	Grants permission to describe a log pattern	Read			
<a href="#">DescribeObservation</a>	Grants permission to describe an observation	Read			
<a href="#">DescribeProblem</a>	Grants permission to describe a problem	Read			
<a href="#">DescribeProblemObservations</a>	Grants permission to describe the observation in a problem	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWorkload</a>	Grants permission to describe a workload	Read			
<a href="#">Link</a> [permission only]	Grants permission to share Application Insights resources with a monitoring account	Write			
<a href="#">ListApplications</a>	Grants permission to list all applications	List			
<a href="#">ListComponents</a>	Grants permission to list an application's components	List			
<a href="#">ListConfigurationHistory</a>	Grants permission to list configuration history	List			
<a href="#">ListLogPatternSets</a>	Grants permission to list log pattern sets for an application	List			
<a href="#">ListLogPatterns</a>	Grants permission to list log patterns	List			
<a href="#">ListProblems</a>	Grants permission to list the problems in an application	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for the resource	Read			
<a href="#">ListWorkloads</a>	Grants permission to list workloads	List			
<a href="#">RemoveWorkload</a>	Grants permission to remove a workload	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging		<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write			
<a href="#">UpdateComponent</a>	Grants permission to update a component	Write			
<a href="#">UpdateComponentConfiguration</a>	Grants permission to update a component's configuration	Write			
<a href="#">UpdateLogPattern</a>	Grants permission to update a log pattern	Write			
<a href="#">UpdateProblem</a>	Grants permission to update a problem	Write			
<a href="#">UpdateWorkload</a>	Grants permission to update a workload	Write			

## Resource types defined by Amazon CloudWatch Application Insights

Amazon CloudWatch Application Insights does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon CloudWatch Application Insights, specify "Resource": "\*" in your policy.

## Condition keys for Amazon CloudWatch Application Insights

Amazon CloudWatch Application Insights defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch Application Signals

Amazon CloudWatch Application Signals (service prefix: `application-signals`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CloudWatch Application Signals](#)
- [Resource types defined by Amazon CloudWatch Application Signals](#)
- [Condition keys for Amazon CloudWatch Application Signals](#)

## Actions defined by Amazon CloudWatch Application Signals


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetServiceLevelObjectiveBudgetReport</a>	Grants permission to batch retrieve a service level objective budget report	Read	<a href="#">slo*</a>		
<a href="#">BatchUpdateExclusionWindows</a>	Grants permission to add or remove exclusion windows from Amazon CloudWatch SLOs	Write	<a href="#">slo*</a>		
<a href="#">CreateServiceLevelObjective</a>	Grants permission to create a service level objective	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteGroupingConfiguration</a>	Grants permission to delete a grouping configuration	Write			
<a href="#">DeleteServiceLevelObjective</a>	Grants permission to delete a service level objective	Write	<a href="#">slo*</a>		
<a href="#">GetService</a>	Grants permission to retrieve information about a service	Read			
<a href="#">GetServiceLevelObjective</a>	Grants permission to retrieve information about service level objective	Read	<a href="#">slo*</a>		
<a href="#">Link</a> [permission only]	Grants permission to share Application Signals resources with a monitoring account	Write			
<a href="#">ListAuditFindings</a>	Grants permission to list service auditing results	List			
<a href="#">ListEntityEvents</a>	Grants permission to list events for an entity	List			
<a href="#">ListGroupingAttributeDefinitions</a>	Grants permission to list grouping attribute configurations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListObservedEntities</a>	Grants permission to list entities associated with other entities	List			
<a href="#">ListServiceDependencies</a>	Grants permission to list service dependencies	Read			
<a href="#">ListServiceDependents</a>	Grants permission to list service dependents	Read			
<a href="#">ListServiceLevelObjectiveExclusionWindows</a>	Grants permission to list exclusion windows for an Amazon CloudWatch SLO	List	<a href="#">slo*</a>		
<a href="#">ListServiceLevelObjectives</a>	Grants permission to list service level objectives	List			
<a href="#">ListServiceOperations</a>	Grants permission to list service operations	Read			
<a href="#">ListServiceStates</a>	Grants permission to list service states	List			
<a href="#">ListServices</a>	Grants permission to list services	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an Amazon CloudWatch SLO	Read	<a href="#">slo*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutGroupingConfiguration</a>	Grants permission to create or update a grouping configuration	Write			
<a href="#">StartDiscovery</a>	Grants permission to enable CloudWatch discovery	Write			
<a href="#">TagResource</a>	Grants permission to add tags to an Amazon CloudWatch SLO	Tagging	<a href="#">slo*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag to an Amazon CloudWatch SLO	Tagging	<a href="#">slo*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateServiceLevelObjective</a>	Grants permission to update a service level objective	Write	<a href="#">slo*</a>		

## Resource types defined by Amazon CloudWatch Application Signals

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">slo</a>	arn:\${Partition}:application-signals:\${Region}:\${Account}:slo/\${SloName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Application Signals

Amazon CloudWatch Application Signals defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch Evidently

Amazon CloudWatch Evidently (service prefix: `evidently`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CloudWatch Evidently](#)
- [Resource types defined by Amazon CloudWatch Evidently](#)
- [Condition keys for Amazon CloudWatch Evidently](#)

## Actions defined by Amazon CloudWatch Evidently

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchEvaluateFeature</a>	Grants permission to send a batched evaluate feature request	Write	<a href="#">Feature*</a>		
<a href="#">CreateExperiment</a>	Grants permission to create an experiment	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFeature</a>	Grants permission to create a feature	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateLaunch</a>	Grants permission to create a launch	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProject</a>	Grants permission to create a project	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole  iam:GetRole
<a href="#">CreateSegment</a>	Grants permission to create a segment	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteExperiment</a>	Grants permission to delete an experiment	Write	<a href="#">Experiment*</a>		
<a href="#">DeleteFeature</a>	Grants permission to delete a feature	Write	<a href="#">Feature*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLaunch</a>	Grants permission to delete a launch	Write	<a href="#">Launch*</a>		
<a href="#">DeleteProject</a>	Grants permission to delete a project	Write	<a href="#">Project*</a>		
<a href="#">DeleteSegment</a>	Grants permission to delete a segment	Write	<a href="#">Segment*</a>		
<a href="#">EvaluateFeature</a>	Grants permission to send an evaluate feature request	Write	<a href="#">Feature*</a>		
<a href="#">GetExperiment</a>	Grants permission to get experiment details	Read	<a href="#">Experiment*</a>		
<a href="#">GetExperimentResults</a>	Grants permission to get experiment result	Read	<a href="#">Experiment*</a>		
<a href="#">GetFeature</a>	Grants permission to get feature details	Read	<a href="#">Feature*</a>		
<a href="#">GetLaunch</a>	Grants permission to get launch details	Read	<a href="#">Launch*</a>		
<a href="#">GetProject</a>	Grants permission to get project details	Read	<a href="#">Project*</a>		
<a href="#">GetSegment</a>	Grants permission to get segment details	Read	<a href="#">Segment*</a>		
<a href="#">ListExperiments</a>	Grants permission to list experiments	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFeatures</a>	Grants permission to list features	Read			
<a href="#">ListLaunches</a>	Grants permission to list launches	Read			
<a href="#">ListProjects</a>	Grants permission to list projects	Read			
<a href="#">ListSegmentReferences</a>	Grants permission to list resources referencing a segment	Read			
<a href="#">ListSegments</a>	Grants permission to list segments	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for resources	Read			
<a href="#">PutProjectEvents</a>	Grants permission to send performance events	Write	<a href="#">Project*</a>		
<a href="#">StartExperiment</a>	Grants permission to start an experiment	Write	<a href="#">Experiment*</a>		
<a href="#">StartLaunch</a>	Grants permission to start a launch	Write	<a href="#">Launch*</a>		
<a href="#">StopExperiment</a>	Grants permission to stop an experiment	Write	<a href="#">Experiment*</a>		
<a href="#">StopLaunch</a>	Grants permission to stop a launch	Write	<a href="#">Launch*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag resources	Tagging	<a href="#">Experiment</a>		
			<a href="#">Feature</a>		
			<a href="#">Launch</a>		
			<a href="#">Project</a>		
			<a href="#">Segment</a>		
<a href="#">TestSegmentPattern</a>	Grants permission to test a segment pattern	Read			
<a href="#">UntagResource</a>	Grants permission to untag resources	Tagging	<a href="#">Experiment</a>		
			<a href="#">Feature</a>		
			<a href="#">Launch</a>		
			<a href="#">Project</a>		
			<a href="#">Segment</a>		
				<a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateExperiment</a>	Grants permission to update experiment	Write	<a href="#">Experiment*</a>		
<a href="#">UpdateFeature</a>	Grants permission to update feature	Write	<a href="#">Feature*</a>		
<a href="#">UpdateLaunch</a>	Grants permission to update a launch	Write	<a href="#">Launch*</a>		
<a href="#">UpdateProject</a>	Grants permission to update project	Write	<a href="#">Project*</a>		iam:CreateServiceLinkedRole  iam:GetRole
<a href="#">UpdateProjectDataDelivery</a>	Grants permission to update project data delivery	Write	<a href="#">Project*</a>		

## Resource types defined by Amazon CloudWatch Evidently

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Project</a>	arn:\${Partition}:evidently:\${Region}:\${Account}:project/\${ProjectName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Feature</a>	arn:\${Partition}:evidently:\${Region}:\${Account}:project/\${ProjectName}/feature/\${FeatureName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Experiment</a>	arn:\${Partition}:evidently:\${Region}:\${Account}:project/\${ProjectName}/experiment/\${ExperimentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Launch</a>	arn:\${Partition}:evidently:\${Region}:\${Account}:project/\${ProjectName}/launch/\${LaunchName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Segment</a>	arn:\${Partition}:evidently:\${Region}:\${Account}:segment/\${SegmentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Evidently

Amazon CloudWatch Evidently defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed the request on behalf of the IAM principal	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource that make the request on behalf of the IAM principal	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request on behalf of the IAM principal	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch Internet Monitor

Amazon CloudWatch Internet Monitor (service prefix: `internetmonitor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudWatch Internet Monitor](#)
- [Resource types defined by Amazon CloudWatch Internet Monitor](#)
- [Condition keys for Amazon CloudWatch Internet Monitor](#)

## Actions defined by Amazon CloudWatch Internet Monitor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMonitor</a>	Grants permission to create a monitor	Write	<a href="#">Monitor*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteMonitor</a>	Grants permission to delete a monitor	Write	<a href="#">Monitor*</a>		
<a href="#">GetHealthEvent</a>	Grants permission to get information about a health event for a specified monitor	Read	<a href="#">Monitor*</a>		
<a href="#">GetInternetEvent</a>	Grants permission to get information about a specified internet event	Read	<a href="#">InternetEvent*</a>		
<a href="#">GetMonitor</a>	Grants permission to get information about a monitor	Read	<a href="#">Monitor*</a>		
<a href="#">GetQueryResults</a>	Grants permission to get results for a data query for a monitor	Read	<a href="#">Monitor*</a>		
<a href="#">GetQueryStatus</a>	Grants permission to get status for a data query for a monitor	Read	<a href="#">Monitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Link</a> [permission only]	Grants permission to share Internet Monitor resources with a monitoring account	Write			
<a href="#">ListHealthEvents</a>	Grants permission to list all health events for a monitor	List	<a href="#">Monitor*</a>		
<a href="#">ListInternetEvents</a>	Grants permission to list all internet events	List			
<a href="#">ListMonitors</a>	Grants permission to list all monitors in an account and their statuses	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">Monitor*</a>		
<a href="#">StartQuery</a>	Grants permission to start a data query for a monitor	Read	<a href="#">Monitor*</a>		
<a href="#">StopQuery</a>	Grants permission to stop a data query for a monitor	Read	<a href="#">Monitor*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">Monitor*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">Monitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateMonitor</a>	Grants permission to update a monitor	Write	<a href="#">Monitor*</a>		

## Resource types defined by Amazon CloudWatch Internet Monitor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">HealthEvent</a>	arn:\${Partition}:internetmonitor:\${Region}:\${Account}:monitor/\${MonitorName}/health-event/\${EventId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Monitor</a>	arn:\${Partition}:internetmonitor:\${Region}:\${Account}:monitor/\${MonitorName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">InternetEvent</a>	arn:\${Partition}:internetmonitor:::\${Account}:internet-event/\${InternetEventId}	

## Condition keys for Amazon CloudWatch Internet Monitor

Amazon CloudWatch Internet Monitor defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch Logs

Amazon CloudWatch Logs (service prefix: `logs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudWatch Logs](#)
- [Resource types defined by Amazon CloudWatch Logs](#)
- [Condition keys for Amazon CloudWatch Logs](#)



## Actions defined by Amazon CloudWatch Logs

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateKmsKey</a>	Grants permission to associate the specified AWS Key Management Service (AWS KMS) customer master key (CMK) with the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">AssociateSourceToS3TableIntegration</a>	Grants permission to associate a log source to an S3 Tables integration	Write			
<a href="#">CallWithBearerToken</a> [permission only]	Grants permission to authenticate requests using bearer token	Write			
<a href="#">CancelExportTask</a>	Grants permission to cancel an export task if it is in PENDING or RUNNING state	Write			
<a href="#">CancelImportTask</a>	Grants permission to cancel an import from CloudTrail Lake to CloudWatch	Write			
<a href="#">CreateDelivery</a>	Grants permission to create a delivery connecting a delivery	Write	<a href="#">delivery*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	source to a delivery destination		<a href="#">delivery-destination*</a>		
			<a href="#">delivery-source*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateExportTask</a>	Grants permission to create an ExportTask which allows you to efficiently export data from a Log Group to your Amazon S3 bucket	Write	<a href="#">log-group*</a>		
<a href="#">CreateImportTask</a>	Grants permission to start an asynchronous process to import data from a CloudTrail Lake event data store into a managed log group in CloudWatch	Write			
<a href="#">CreateLogAnomalyDetector</a>	Grants permission to create a log anomaly detector	Write	<a href="#">log-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateLogDelivery</a> [permission only]	Grants permission to create the log delivery	Write			
<a href="#">CreateLogGroup</a>	Grants permission to create a new log group with the specified name	Write	<a href="#">log-group*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateLogStream</a>	Grants permission to create a new log stream with the specified name	Write	<a href="#">log-stream*</a>		
<a href="#">CreateScheduledQuery</a>	Grants permission to create a scheduled query	Write	<a href="#">scheduled-query*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteAccountPolicy</a>	Grants permission to delete an account policy	Write			
<a href="#">DeleteDataProtectionPolicy</a>	Grants permission to delete a data protection policy attached to a log group	Write	<a href="#">log-group*</a>		
<a href="#">DeleteDelivery</a>	Grants permission to delete a delivery	Write	<a href="#">delivery*</a>		
<a href="#">DeleteDeliveryDestination</a>	Grants permission to delete a delivery destination after all associated deliveries are deleted	Write	<a href="#">delivery-destination*</a>		
<a href="#">DeleteDeliveryDestinationPolicy</a>	Grants permission to delete a delivery destination policy associated with a delivery destination	Write	<a href="#">delivery-destination*</a>		
<a href="#">DeleteDeliverySource</a>	Grants permission to delete a delivery source after all associated deliveries are deleted	Write	<a href="#">delivery-destination*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDestination</a>	Grants permission to delete the destination with the specified name	Write	<a href="#">destination*</a>		
<a href="#">DeleteIndexPolicy</a>	Grants permission to delete an index policy attached to a log group	Write			
<a href="#">DeleteIntegration</a>	Grants permission to delete the integration	Write			
<a href="#">DeleteLogAnomalyDetector</a>	Grants permission to delete a log anomaly detector	Write	<a href="#">anomaly-detector*</a>		
<a href="#">DeleteLogDelivery</a> [permission only]	Grants permission to delete the log delivery information for specified log delivery	Write			
<a href="#">DeleteLogGroup</a>	Grants permission to delete the log group with the specified name	Write	<a href="#">log-group*</a>		
<a href="#">DeleteLogStream</a>	Grants permission to delete a log stream	Write	<a href="#">log-stream*</a>		
<a href="#">DeleteMetricFilter</a>	Grants permission to delete a metric filter associated with the specified log group	Write	<a href="#">log-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePipelineRule</a> [permission only]	Grants permission to delete telemetry pipeline	Write			
<a href="#">DeleteQueryDefinition</a>	Grants permission to delete a saved CloudWatch Logs Insights query definition	Write			
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy from this account	Permissions management			
<a href="#">DeleteRetentionPolicy</a>	Grants permission to delete the retention policy of the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">DeleteScheduledQuery</a>	Grants permission to delete a scheduled query	Write	<a href="#">scheduled-query*</a>		
<a href="#">DeleteSubscriptionFilter</a>	Grants permission to delete a subscription filter associated with the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">DeleteTransformer</a>	Grants permission to delete a transformer associated with the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">DescribeAccountPolicies</a>	Grants permission to retrieve account policies	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeConfigurationTemplates</a>	Grants permission to retrieve a list of configuration templates of available log types	List			
<a href="#">DescribeDeliveries</a>	Grants permission to retrieve a list of deliveries an account	List			
<a href="#">DescribeDeliveryDestinations</a>	Grants permission to retrieve a list of delivery destinations an account	List			
<a href="#">DescribeDeliverySources</a>	Grants permission to retrieve a list of delivery sources in an account	List			
<a href="#">DescribeDestinations</a>	Grants permission to return all the destinations that are associated with the AWS account making the request	List			
<a href="#">DescribeExportTasks</a>	Grants permission to return all the export tasks that are associated with the AWS account making the request	List			
<a href="#">DescribeFieldIndexes</a>	Grants permission to return all the indexing attributes that are attached with the log groups	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImportTaskBatches</a>	Grants permission to return detailed information about the individual batches within an import task, including status and any error	List			
<a href="#">DescribeImportTasks</a>	Grants permission to return all the import tasks associated with the AWS account making the request	List			
<a href="#">DescribeIndexPolicies</a>	Grants permission to return all the index policies that are attached with the log groups	List			
<a href="#">DescribeLogGroups</a>	Grants permission to return all the log groups that are associated with the AWS account making the request	List			
<a href="#">DescribeLogStreams</a>	Grants permission to return all the log streams that are associated with the specified log group	List	<a href="#">log-group*</a>		
<a href="#">DescribeMetricFilters</a>	Grants permission to return all the metrics filters associated with the specified log group	List	<a href="#">log-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeQueries</a>	Grants permission to return a list of CloudWatch Logs Insights queries that are scheduled, executing, or have been executed recently in this account	List			
<a href="#">DescribeQueryDefinitions</a>	Grants permission to return a paginated list of your saved CloudWatch Logs Insights query definitions	List			
<a href="#">DescribeResourcePolicies</a>	Grants permission to return all the resource policies in this account	List			
<a href="#">DescribeSubscriptionFilters</a>	Grants permission to return all the subscription filters associated with the specified log group	List	<a href="#">log-group*</a>		
<a href="#">DisassociateKmsKey</a>	Grants permission to disassociate the associated AWS Key Management Service (AWS KMS) customer master key (CMK) from the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">DisassociateSourceFromS3TableIntegration</a>	Grants permission to disassociate a log source from an S3 Tables integration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">FilterLogEvents</a>	Grants permission to retrieve log events, optionally filtered by a filter pattern from the specified log group	Read	<a href="#">log-group*</a>		
<a href="#">GetDataProtectionPolicy</a>	Grants permission to retrieve a data protection policy attached to a log group	Read	<a href="#">log-group*</a>		
<a href="#">GetDelivery</a>	Grants permission to retrieve a single delivery	Read	<a href="#">delivery*</a>		
<a href="#">GetDeliveryDestination</a>	Grants permission to retrieve a single delivery destination	Read	<a href="#">delivery-destination*</a>		
<a href="#">GetDeliveryDestinationPolicy</a>	Grants permission to retrieve a delivery destination policy attached to a delivery destination	Read	<a href="#">delivery-destination*</a>		
<a href="#">GetDeliverySource</a>	Grants permission to retrieve a single delivery source	Read	<a href="#">delivery-source*</a>		
<a href="#">GetIntegration</a>	Grants permission to retrieve a single integration	Read			
<a href="#">GetLogAnomalyDetector</a>	Grants permission to get a log anomaly detector	Read	<a href="#">anomaly-detector*</a>		
<a href="#">GetLogDelivery</a> [permission only]	Grants permission to get the log delivery information for specified log delivery	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLogEvents</a>	Grants permission to retrieve log events from the specified log stream	Read	<a href="#">log-stream*</a>		
<a href="#">GetLogFields</a>	Grants permission to retrieve a list of log fields for a data source	Read			
<a href="#">GetLogGroupFields</a>	Grants permission to return a list of the fields that are included in log events in the specified log group, along with the percentage of log events that contain each field	Read	<a href="#">log-group*</a>		
<a href="#">GetLogRecord</a>	Grants permission to retrieve all the fields and values of a single log event	Read	<a href="#">log-group*</a>		
<a href="#">GetQueryResults</a>	Grants permission to return the results from the specified query	Read	<a href="#">log-group*</a>		
<a href="#">GetScheduledQuery</a>	Grants permission to retrieve information about a specified scheduled query	Read	<a href="#">scheduled-query*</a>		
<a href="#">GetScheduledQueryHistory</a>	Grants permission to return the execution history for a specified scheduled query	Read	<a href="#">scheduled-query*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTransformer</a>	Grants permission to return transformer associated with the specified log group	Read	<a href="#">log-group*</a>		
<a href="#">IntegrateWithS3Table</a> [permission only]	Grants permission to deliver log events to S3 Tables	Write	<a href="#">log-group*</a>		
<a href="#">Link</a> [permission only]	Grants permission to share CloudWatch resources with a monitoring account	Write			
<a href="#">ListAggregateLogGroupSummaries</a>	Grants permission to return an aggregate summary of all log groups in the region grouped by specified data-source characteristics	List			
<a href="#">ListAnomalies</a>	Grants permission to list all anomalies detected in the AWS account making the request	List	<a href="#">anomaly-detector</a>		
<a href="#">ListEntitiesForLogGroup</a> [permission only]	Grants permission to retrieve all the entities that are associated with log group	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIntegrations</a>	Grants permission to list all integrations associated with the AWS account making the request	List			
<a href="#">ListLogAnomalyDetectors</a>	Grants permission to return all the anomaly detectors that are associated with the AWS account making the request	List	<a href="#">anomaly-detector</a>		
<a href="#">ListLogDeliveries</a> [permission only]	Grants permission to list all the log deliveries for specified account and/or log source	List			
<a href="#">ListLogGroups</a>	Grants permission to return all the log groups that are associated with the AWS account making the request	List			
<a href="#">ListLogGroupsForEntity</a> [permission only]	Grants permission to retrieve all the log groups that are associated with entity	List			
<a href="#">ListLogGroupsForQuery</a>	Grants permission to return all the log groups that are associated with the specified query	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListScheduledQueries</a>	Grants permission to return all scheduled queries that are associated with the AWS account making the request	List			
<a href="#">ListSourcesForS3TableIntegration</a>	Grants permission to return all log sources associated with an S3 Tables integration	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	List	<a href="#">anomaly-detector</a>		
			<a href="#">delivery</a>		
			<a href="#">delivery-destination</a>		
			<a href="#">delivery-source</a>		
			<a href="#">destination</a>		
			<a href="#">log-group</a>		
<a href="#">ListTagsLogGroup</a>	Grants permission to list the tags for the specified log group	List	<a href="#">log-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ProcessWithPipeline</a> [permission only]	Grants permission to process and transform log events through pipeline transformers before storage	Write	<a href="#">log-group*</a>		
<a href="#">PutAccountPolicy</a>	Grants permission to attach an account policy	Write			
<a href="#">PutBearerTokenAuthentication</a>	Grants permission to enable or disable bearer token based authentication for the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">PutDataProtectionPolicy</a>	Grants permission to attach a data protection policy to detect and redact sensitive information from log events	Write	<a href="#">log-group*</a>		
<a href="#">PutDeliveryDestination</a>	Grants permission to create/update a delivery destination	Write	<a href="#">delivery-destination*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">logs:DeliveryDestinationResourceArn</a>	
<a href="#">PutDeliveryDestinationPolicy</a>	Grants permission to attach a delivery destination policy to a delivery destination	Write	<a href="#">delivery-destination*</a>		
<a href="#">PutDeliverySource</a>	Grants permission to create/update a delivery source	Write	<a href="#">delivery-source*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">logs:LogGeneratingResourceArns</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutDestination</a>	Grants permission to create or update a Destination	Write	<a href="#">destination*</a>		iam:PassRole
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">PutDestinationPolicy</a>	Grants permission to create or update an access policy associated with an existing Destination	Write	<a href="#">destination*</a>		
<a href="#">PutIndexPolicy</a>	Grants permission to attach an index policy at log group level to optimize search and query	Write			
<a href="#">PutIntegration</a>	Grants permission to create integration between cloudwatch logs and opensearch	Write			
<a href="#">PutLogEvents</a>	Grants permission to upload a batch of log events to the specified log stream	Write	<a href="#">log-stream*</a>		
<a href="#">PutLogGroupDeletionProtection</a>	Grants permission to enable or disable deletion protection for the specified log group	Write	<a href="#">log-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutMetricFilter</a>	Grants permission to create or update a metric filter and associates it with the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">PutPipelineRule</a> [permission only]	Grants permission to create telemetry pipeline	Write			
<a href="#">PutQueryDefinition</a>	Grants permission to create or update a query definition	Write			
<a href="#">PutResourcePolicy</a>	Grants permission to create or update a resource policy allowing other AWS services to put log events to this account	Permissions management			
<a href="#">PutRetentionPolicy</a>	Grants permission to set the retention of the specified log group	Write	<a href="#">log-group*</a>		
<a href="#">PutSubscriptionFilter</a>	Grants permission to create or update a subscription filter and associates it with the specified log group	Write	<a href="#">log-group*</a>		iam:PassRole
			<a href="#">destination</a>		
<a href="#">PutTransformer</a>	Grants permission to create or update a transformer and associates it with the specified log group	Write	<a href="#">log-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartLiveTail</a>	Grants permission to start a Live Tail session in CloudWatch Logs	Read	<a href="#">log-group*</a>		
<a href="#">StartQuery</a>	Grants permission to schedule a query of a log group using CloudWatch Logs Insights	Read	<a href="#">log-group*</a>		
<a href="#">StopLiveTail</a> [permission only]	Grants permission to stop a Live Tail session that is in progress	Read			
<a href="#">StopQuery</a>	Grants permission to stop a CloudWatch Logs Insights query that is in progress	Read			
<a href="#">TagLogGroup</a>	Grants permission to add or update the specified tags for the specified log group	Tagging	<a href="#">log-group*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to add or update the specified tags for the specified resource	Tagging	<a href="#">anomaly-detector</a> <a href="#">delivery</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">delivery-destination</a>		
			<a href="#">delivery-source</a>		
			<a href="#">destination</a>		
			<a href="#">log-group</a>		
			<a href="#">scheduled-query</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">TestMetricFilter</a>	Grants permission to test the filter pattern of a metric filter against a sample of log event messages	Read		<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TestTransformer</a>	Grants permission to test the transformer against a sample of log event messages	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Unmask</a> [permission only]	Grants permission to fetch unmasked log events that have been redacted with a data protection policy	Read	<a href="#">log-group*</a>		
<a href="#">UntagLogGroup</a>	Grants permission to remove the specified tags from the specified log group	Tagging	<a href="#">log-group*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the specified resource	Tagging	<a href="#">anomaly-detector</a>		
			<a href="#">delivery</a>		
			<a href="#">delivery-destination</a>		
			<a href="#">delivery-source</a>		
			<a href="#">destination</a>		
			<a href="#">log-group</a>		
			<a href="#">scheduled-query</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAnomaly</a>	Grants permission to update an anomaly reported by a log anomaly detector	Write	<a href="#">anomaly-detector*</a>		
<a href="#">UpdateDeliveryConfiguration</a>	Grants permission to update configuration related to a delivery	Write	<a href="#">delivery*</a>		
			<a href="#">delivery-destination*</a>		
			<a href="#">delivery-source*</a>		
				<a href="#">aws:TagKeys</a>	
			<a href="#">aws:RequestTag/\${TagKey}</a>		
<a href="#">UpdateLogAnomalyDetector</a>	Grants permission to update a log anomaly detector	Write	<a href="#">anomaly-detector*</a>		
<a href="#">UpdateLogDelivery</a> [permission only]	Grants permission to update the log delivery information for specified log delivery	Write			
<a href="#">UpdateScheduledQuery</a>	Grants permission to update a scheduled query	Write	<a href="#">scheduled-query*</a>		

## Resource types defined by Amazon CloudWatch Logs

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">log-group</a>	arn:\${Partition}:logs:\${Region}:\${Account}:log-group:\${LogGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">log-stream</a>	arn:\${Partition}:logs:\${Region}:\${Account}:log-group:\${LogGroupName}:log-stream:\${LogStreamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">destination</a>	arn:\${Partition}:logs:\${Region}:\${Account}:destination:\${DestinationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">delivery-source</a>	arn:\${Partition}:logs:\${Region}:\${Account}:delivery-source:\${DeliverySourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">delivery</a>	arn:\${Partition}:logs:\${Region}:\${Account}:delivery:\${DeliveryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">delivery-destination</a>	arn:\${Partition}:logs:\${Region}:\${Account}:delivery-destination:\${DeliveryDestinationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">anomaly-detector</a>	arn:\${Partition}:logs:\${Region}:\${Account}:anomaly-detector:\${DetectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">scheduled-query</a>	arn:\${Partition}:logs:\${Region}:\${Account}:scheduled-query:\${ScheduledQueryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Logs

Amazon CloudWatch Logs defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">logs:DeliveryDestinationResourceArn</a>	Filters access by the Log Destination ARN passed in the request	ARN
<a href="#">logs:LogGeneratingResourceArns</a>	Filters access by the Log Generating Resource ARNs passed in the request	ArrayOfARN

# Actions, resources, and condition keys for Amazon CloudWatch Network Synthetic Monitor

Amazon CloudWatch Network Synthetic Monitor (service prefix: `networkmonitor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CloudWatch Network Synthetic Monitor](#)
- [Resource types defined by Amazon CloudWatch Network Synthetic Monitor](#)
- [Condition keys for Amazon CloudWatch Network Synthetic Monitor](#)

## Actions defined by Amazon CloudWatch Network Synthetic Monitor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMonitor</a>	Grants permission to create a monitor	Write	<a href="#">monitor*</a>		
<a href="#">CreateProbe</a>	Grants permission to create a probe	Write			
<a href="#">DeleteMonitor</a>	Grants permission to delete a monitor	Write	<a href="#">monitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProbe</a>	Grants permission to delete a probe	Write	<a href="#">probe*</a>		
<a href="#">GetMonitor</a>	Grants permission to get information about a monitor	Read	<a href="#">monitor*</a>		
<a href="#">GetProbe</a>	Grants permission to get information about a probe	Read	<a href="#">probe*</a>		
<a href="#">ListMonitors</a>	Grants permission to list all monitors in an account and their statuses	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">monitor</a> <a href="#">probe</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">monitor</a> <a href="#">probe</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">monitor</a> <a href="#">probe</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateMonitor</a>	Grants permission to update a monitor	Write	<a href="#">monitor*</a>		
<a href="#">UpdateProbe</a>	Grants permission to update a probe	Write	<a href="#">probe*</a>		

## Resource types defined by Amazon CloudWatch Network Synthetic Monitor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">monitor</a>	arn:\${Partition}:networkmonitor:\${Region}:\${Account}:monitor/\${MonitorName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">probe</a>	arn:\${Partition}:networkmonitor:\${Region}:\${Account}:probe/\${ProbeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Network Synthetic Monitor

Amazon CloudWatch Network Synthetic Monitor defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request	ArrayOfString

# Actions, resources, and condition keys for Amazon CloudWatch Observability Access Manager

Amazon CloudWatch Observability Access Manager (service prefix: oam) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CloudWatch Observability Access Manager](#)
- [Resource types defined by Amazon CloudWatch Observability Access Manager](#)
- [Condition keys for Amazon CloudWatch Observability Access Manager](#)

## Actions defined by Amazon CloudWatch Observability Access Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLink</a>	Grants permission to create a link between a monitoring account and a source account for cross-account monitoring	Write	<a href="#">Sink*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	oam:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">oam:ResourceTypes</a>	
<a href="#">CreateSink</a>	Grants permission to create a sink in an account so that it can be used as a monitoring account for cross-account monitoring	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	oam:TagResource
<a href="#">DeleteLink</a>	Grants permission to delete a link between a monitoring account and a source account for cross-account monitoring	Write	<a href="#">Link*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSink</a>	Grants permission to delete a cross-account monitoring sink in a monitoring account	Write	<a href="#">Sink*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLink</a>	Grants permission to retrieve complete information about one cross-account monitoring link	Read	<a href="#">Link*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSink</a>	Grants permission to retrieve complete information about one cross-account monitoring sink	Read	<a href="#">Sink*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSinkPolicy</a>	Grants permission to retrieve information for the IAM policy for a cross-account monitoring sink	Read	<a href="#">Sink*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAttachedLinks</a>	Grants permission to retrieve a list of links that are linked for a cross-account monitoring sink	Read	<a href="#">Sink*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListLinks</a>	Grants permission to retrieve the ARNs of cross-account monitoring links in this account	Read			
<a href="#">ListSinks</a>	Grants permission to retrieve the ARNs of cross-account monitoring sinks in this account	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">Link</a>		
			<a href="#">Sink</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutSinkPolicy</a>	Grants permission to create or update the IAM policy for a cross-account monitoring sink	Write	<a href="#">Sink*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">Link</a>		
			<a href="#">Sink</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">Link</a>		
			<a href="#">Sink</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLink</a>	Grants permission to update an existing link between a monitoring account and a source account	Write	<a href="#">Link*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">oam:ResourceTypes</a>	

## Resource types defined by Amazon CloudWatch Observability Access Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Link</a>	arn:\${Partition}:oam:\${Region}:\${Account}:link/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Sink</a>	arn:\${Partition}:oam:\${Region}:\${Account}:sink/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Observability Access Manager

Amazon CloudWatch Observability Access Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine

the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">oam:ResourceTypes</a>	Filters access by the presence of resource types in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch Observability Admin Service

Amazon CloudWatch Observability Admin Service (service prefix: `observabilityadmin`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudWatch Observability Admin Service](#)
- [Resource types defined by Amazon CloudWatch Observability Admin Service](#)
- [Condition keys for Amazon CloudWatch Observability Admin Service](#)

## Actions defined by Amazon CloudWatch Observability Admin Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCentralizationRuleForOrganization</a>	Grants permission to create a new organization centralization rule with the specified name for the organization	Write	<a href="#">organization-centralization-rule*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">observabilityadmin:CentralizationSourceRegion</a> <a href="#">observabilityadmin:CentralizationDestinationRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">observabilityadmin:CentralizationBackupRegion</a>	
<a href="#">CreateS3TableIntegration</a>	Grants permission to create a new s3 table integration with the specified configuration	Write	<a href="#">s3tableintegration</a> *		
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateTelemetryPipeline</a>	Grants permission to create a new telemetry pipeline with the specified name and configuration	Write	<a href="#">telemetry-pipeline</a> *		
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">observabilityadmin:SourceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTelemetryRule</a>	Grants permission to create a new telemetry rule with the specified name for the account	Write	<a href="#">telemetry-rule*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateTelemetryRuleForOrganization</a>	Grants permission to create a new organization telemetry rule with the specified name for the organization	Write	<a href="#">organization-telemetry-rule*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteCentralizationRuleForOrganization</a>	Grants permission to delete an organization centralization rule with the specified name for the organization	Write	<a href="#">organization-centralization-rule*</a>		
<a href="#">DeleteS3TableIntegration</a>	Grants permission to delete the s3 table integration with the specified arn	Write	<a href="#">s3tableintegration*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTelemetryPipeline</a>	Grants permission to delete the telemetry pipeline with the specified arn	Write	<a href="#">telemetry-pipeline</a> *		
<a href="#">DeleteTelemetryRule</a>	Grants permission to delete a telemetry rule with the specified name for the account	Write	<a href="#">telemetry-rule</a> *		
<a href="#">DeleteTelemetryRuleForOrganization</a>	Grants permission to delete an organization telemetry rule with the specified name for the organization	Write	<a href="#">organization-telemetry-rule</a> *		
<a href="#">GetCentralizationRuleForOrganization</a>	Grants permission to retrieve the specified organization centralization rule for the organization	Read	<a href="#">organization-centralization-rule</a> *		
<a href="#">GetS3TableIntegration</a>	Grants permission to retrieve the specified s3 table integration for the account	Read	<a href="#">s3tableintegration</a> *		
<a href="#">GetTelemetryEnrichmentStatus</a>	Grants permission to retrieve the status of the Resource tags for telemetry feature for the account	Read			
<a href="#">GetTelemetryEvaluationStatus</a>	Grants permission to retrieve the Telemetry Config feature status for the account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTelemetryEvaluationStatusForOrganization</a>	Grants permission to retrieve the Telemetry Config feature status for the organization	Read			
<a href="#">GetTelemetryPipeline</a>	Grants permission to Get the telemetry pipeline with the specified name or arn	Read	<a href="#">telemetry-pipeline*</a>		
<a href="#">GetTelemetryRule</a>	Grants permission to retrieve the specified telemetry rule for the account	Read	<a href="#">telemetry-rule*</a>		
<a href="#">GetTelemetryRuleForOrganization</a>	Grants permission to retrieve the specified organization telemetry rule for the organization	Read	<a href="#">organization-telemetry-rule*</a>		
<a href="#">ListCentralizationRulesForOrganization</a>	Grants permission to list the centralization rules for the organization	List			
<a href="#">ListResourceTelemetry</a>	Grants permission to retrieve telemetry configurations for resources associated with the account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceTelemetryForOrganization</a>	Grants permission to retrieve telemetry configurations for resources associated with accounts in the organization	Read			
<a href="#">ListS3TableIntegrations</a>	Grants permission to list s3 table integrations for the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	List	<a href="#">organization-centralization-rule</a>		
			<a href="#">organization-telemetry-rule</a>		
			<a href="#">s3tableintegration</a>		
			<a href="#">telemetry-pipeline</a>		
			<a href="#">telemetry-rule</a>		
<a href="#">ListTelemetryPipelines</a>	Grants permission to List telemetry pipelines for the account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTelemetryRules</a>	Grants permission to list the telemetry rules for the account	List			
<a href="#">ListTelemetryRulesForOrganization</a>	Grants permission to list the telemetry rules for the organization	List			
<a href="#">StartTelemetryEnrichment</a>	Grants permission to enable the Resource tags for telemetry feature for the account	Write			
<a href="#">StartTelemetryEvaluation</a>	Grants permission to start the Telemetry Config feature for the account	Write			
<a href="#">StartTelemetryEvaluationForOrganization</a>	Grants permission to start the Telemetry Config feature for the organization	Write			
<a href="#">StopTelemetryEnrichment</a>	Grants permission to disable the Resource tags for telemetry feature for the account	Write			
<a href="#">StopTelemetryEvaluation</a>	Grants permission to stop the Telemetry Config feature for the account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopTelemetryEvaluationForOrganization</a>	Grants permission to stop the Telemetry Config feature for the organization	Write			
<a href="#">TagResource</a>	Grants permission to add or update the specified tags for the specified resource	Tagging	<a href="#">organization-centralization-rule</a>		
			<a href="#">organization-telemetry-rule</a>		
			<a href="#">s3tableintegration</a>		
			<a href="#">telemetry-pipeline</a>		
			<a href="#">telemetry-rule</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TestTelemetryPipeline</a>	Grants permission to Test a telemetry pipeline configuration with sample data	Read			
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the specified resource	Tagging	<a href="#">organization-centralization-rule</a>		
			<a href="#">organization-telemetry-rule</a>		
			<a href="#">s3tableintegration</a>		
			<a href="#">telemetry-pipeline</a>		
			<a href="#">telemetry-rule</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCentralizationRuleForOrganization</a>	Grants permission to update the specified centralization rule for the organization	Write	<a href="#">organization-centralization-rule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">observabilityadmin:CentralizationSourceRegions</a> <a href="#">observabilityadmin:CentralizationDestinationRegion</a> <a href="#">observabilityadmin:CentralizationBackupRegion</a>	
<a href="#">UpdateTelemetryPipeline</a>	Grants permission to Update the telemetry pipeline with the specified arn	Write	<a href="#">telemetry-pipeline*</a>		
<a href="#">UpdateTelemetryRule</a>	Grants permission to update the specified telemetry rule for the account	Write	<a href="#">telemetry-rule*</a>		
<a href="#">UpdateTelemetryRuleForOrganization</a>	Grants permission to update the specified telemetry rule for the organization	Write	<a href="#">organization-telemetry-rule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidateTelemetryPipelineConfiguration</a>	Grants permission to Validate a telemetry pipeline configuration	Read			

## Resource types defined by Amazon CloudWatch Observability Admin Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">telemetry-rule</a>	arn:\${Partition}:observabilityadmin:\${Region}:\${Account}:telemetry-rule/\${TelemetryRuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">organization-telemetry-rule</a>	arn:\${Partition}:observabilityadmin:\${Region}:\${Account}:organization-telemetry-rule/\${TelemetryRuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">organization-centralization-rule</a>	arn:\${Partition}:observabilityadmin:\${Region}:\${Account}:organization-centralization-rule/\${CentralizationRuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">telemetry-pipeline</a>	arn:\${Partition}:observabilityadmin:\${Region}:\${Account}:telemetry-pipeline/\${TelemetryPipelineIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">s3tableintegration</a>	arn:\${Partition}:observabilityadmin:\${Region}:\${Account}:s3tableintegration/\${S3TableIntegrationIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Observability Admin Service

Amazon CloudWatch Observability Admin Service defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">observabilityadmin:CentralizationBackupRegion</a>	Filters access by the backup region that is passed in the request	String
<a href="#">observabilityadmin:Centrali</a>	Filters access by the destination region that is passed in the request	String

Condition keys	Description	Type
<a href="#">:destinationRegion</a>		
<a href="#">:observabilityadmin:CentralizationSourceRegions</a>	Filters access by the source regions that are passed in the request	ArrayOfString
<a href="#">:observabilityadmin:SourceType</a>	Filters access by the source type that is passed in the request	String

## Actions, resources, and condition keys for AWS CloudWatch RUM

AWS CloudWatch RUM (service prefix: `rum`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CloudWatch RUM](#)
- [Resource types defined by AWS CloudWatch RUM](#)
- [Condition keys for AWS CloudWatch RUM](#)

## Actions defined by AWS CloudWatch RUM

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCreateRunMetricDefinitions</a>	Grants permission to create run metric definitions	Write	<a href="#">AppMonitorResource</a> *		
<a href="#">BatchDeleteRunMetricDefinitions</a>	Grants permission to remove run metric definitions	Write	<a href="#">AppMonitorResource</a> *		
<a href="#">BatchGetRunMetricDefinitions</a>	Grants permission to get run metric definitions	Read	<a href="#">AppMonitorResource</a> *		
<a href="#">CreateAppMonitor</a>	Grants permission to create appMonitor metadata	Write	<a href="#">AppMonitorResource</a> *	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole  iam:GetRole
<a href="#">DeleteAppMonitor</a>	Grants permission to delete appMonitor metadata	Write	<a href="#">AppMonitorResource</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy attached to an app monitor	Write	<a href="#">AppMonitorResource</a> *		
<a href="#">DeleteRunMetricsDestination</a>	Grants permission to delete run metrics destinations	Write	<a href="#">AppMonitorResource</a> *		
<a href="#">GetAppMonitor</a>	Grants permission to get appMonitor metadata	Read	<a href="#">AppMonitorResource</a> *		
<a href="#">GetAppMonitorData</a>	Grants permission to get appMonitor data	Read	<a href="#">AppMonitorResource</a> *		
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve a resource policy attached to an app monitor	Read	<a href="#">AppMonitorResource</a> *		
<a href="#">ListAppMonitors</a>	Grants permission to list appMonitors metadata	List			
<a href="#">ListRunMetricsDestinations</a>	Grants permission to list run metrics destinations	Read	<a href="#">AppMonitorResource</a> *		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for resources	Read			
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource policy to an app monitor	Write	<a href="#">AppMonitorResource</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutRumEvents</a>	Grants permission to put RUM events for appmonitor	Write	<a href="#">AppMonitorResource</a> *		
<a href="#">PutRumMetricsDestination</a>	Grants permission to put rum metrics destinations	Write	<a href="#">AppMonitorResource</a> *		
<a href="#">TagResource</a>	Grants permission to tag resources	Tagging	<a href="#">AppMonitorResource</a> *	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag resources	Tagging	<a href="#">AppMonitorResource</a> *	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAppMonitor</a>	Grants permission to update appmonitor metadata	Write	<a href="#">AppMonitorResource</a> *		iam:CreateServiceLinkedRole  iam:GetRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRumMetricDefinition</a>	Grants permission to update rum metric definition	Write	<a href="#">AppMonitorResource</a> *		

## Resource types defined by AWS CloudWatch RUM

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AppMonitorResource</a>	arn:\${Partition}:rum:\${Region}:\${Account}:appmonitor/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CloudWatch RUM

AWS CloudWatch RUM defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed the request on behalf of the IAM principal	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource that make the request on behalf of the IAM principal	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request on behalf of the IAM principal	ArrayOfString

## Actions, resources, and condition keys for Amazon CloudWatch Synthetics

Amazon CloudWatch Synthetics (service prefix: `synthetics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CloudWatch Synthetics](#)
- [Resource types defined by Amazon CloudWatch Synthetics](#)
- [Condition keys for Amazon CloudWatch Synthetics](#)

## Actions defined by Amazon CloudWatch Synthetics

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.



However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateResource</a>	Grants permission to associate a resource with a group	Write	<a href="#">group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCanary</a>	Grants permission to create a canary	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGroup</a>	Grants permission to create a group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteCanary</a>	Grants permission to delete a canary. Amazon Synthetic deletes all the resources except for the Lambda function and the CloudWatch Alarms if you created one	Write	<a href="#">canary*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteGroup</a>	Grants permission to delete a group	Write	<a href="#">group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeCanaries</a>	Grants permission to list information of all canaries	Read		<a href="#">synthetic:Names</a>	
<a href="#">DescribeCanariesLastRun</a>	Grants permission to list information about the last test run associated with all canaries	Read		<a href="#">synthetic:Names</a>	
<a href="#">DescribeRuntimeVersions</a>	Grants permission to list information about Synthetics canary runtime versions	Read			
<a href="#">DisassociateResource</a>	Grants permission to disassociate a resource from a group	Write	<a href="#">group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCanary</a>	Grants permission to view the details of a canary	Read	<a href="#">canary*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">GetCanaryRuns</a>	Grants permission to list information about all the test runs associated with a canary	Read	<a href="#">canary*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">GetGroup</a>	Grants permission to view the details of a group	Read	<a href="#">group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">ListAssociatedGroups</a>	Grants permission to list information about the associated groups of a canary	List	<a href="#">canary*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListGroupResources</a>	Grants permission to list information about canaries in a group	List	<a href="#">group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListGroup</a>	Grants permission to list information of all groups	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags and values associated with a resource	Read	<a href="#">canary</a> <a href="#">group</a>		
<a href="#">StartCanary</a>	Grants permission to start a canary, so that Amazon CloudWatch Synthetics starts monitoring a website	Write	<a href="#">canary*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartCanaryDryRun</a>	Grants permission to start a canary dry run, so that Amazon CloudWatch Synthetics can execute a test execution of a canary with provided parameters	Write	<a href="#">canary*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopCanary</a>	Grants permission to stop a canary	Write	<a href="#">canary*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">canary</a> <a href="#">group</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">canary</a> <a href="#">group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCanary</a>	Grants permission to update a canary	Write	<a href="#">canary*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon CloudWatch Synthetics

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">canary</a>	arn:\${Partition}:synthetics:\${Region}:\${Account}:canary:\${CanaryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">group</a>	arn:\${Partition}:synthetics:\${Region}:\${Account}:group:\${GroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CloudWatch Synthetics

Amazon CloudWatch Synthetics defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString
<a href="#">synthetic:Names</a>	Filters access based on the name of the canary	ArrayOfString

## Actions, resources, and condition keys for AWS CodeArtifact

AWS CodeArtifact (service prefix: `codeartifact`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:



- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS CodeArtifact](#)
- [Resource types defined by AWS CodeArtifact](#)
- [Condition keys for AWS CodeArtifact](#)

## Actions defined by AWS CodeArtifact

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate External Connection</a>	Grants permission to add an external connection to a repository	Write	<a href="#">repository*</a>		
<a href="#">Associate WithDownstreamRepository</a>	Grants permission to associate an existing repository as an upstream repository to another repository	Write	<a href="#">repository*</a>		
<a href="#">CopyPackageVersions</a>	Grants permission to copy package versions from one repository to another repository in the same domain	Write	<a href="#">package*</a> <a href="#">repository*</a>		
<a href="#">CreateDomain</a>	Grants permission to create a new domain	Write		<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePackageGroup</a>	Grants permission to create a package group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRepository</a>	Grants permission to create a new repository	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDomain</a>	Grants permission to delete a domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteDomainPermissionsPolicy</a>	Grants permission to delete the resource policy set on a domain	Permissions management	<a href="#">domain*</a>		
<a href="#">DeletePackage</a>	Grants permission to delete a package	Write	<a href="#">package*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePackageGroup</a>	Grants permission to delete a package group	Write	<a href="#">package-group*</a>		
<a href="#">DeletePackageVersions</a>	Grants permission to delete package versions	Write	<a href="#">package*</a>		
<a href="#">DeleteRepository</a>	Grants permission to delete a repository	Write	<a href="#">repository*</a>		
<a href="#">DeleteRepositoryPermissionsPolicy</a>	Grants permission to delete the resource policy set on a repository	Permissions management	<a href="#">repository*</a>		
<a href="#">DescribeDomain</a>	Grants permission to return information about a domain	Read	<a href="#">domain*</a>		
<a href="#">DescribePackage</a>	Grants permission to retrieve information about a package	Read	<a href="#">package*</a>		
<a href="#">DescribePackageGroup</a>	Grants permission to return detailed information about a package group	Read	<a href="#">package-group*</a>		
<a href="#">DescribePackageVersion</a>	Grants permission to return information about a package version	Read	<a href="#">package*</a>		
<a href="#">DescribeRepository</a>	Grants permission to return detailed information about a repository	Read	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateExternalConnection</a>	Grants permission to disassociate an external connection from a repository	Write	<a href="#">repository*</a>		
<a href="#">DisposePackageVersions</a>	Grants permission to set the status of package versions to Disposed and delete their assets	Write	<a href="#">package*</a>		
<a href="#">GetAssociatedPackageGroup</a>	Grants permission to return a package's associated package group	Read	<a href="#">package-group*</a>		
<a href="#">GetAuthorizationToken</a>	Grants permission to generate a temporary authentication token for accessing repositories in a domain	Read	<a href="#">domain*</a>		
<a href="#">GetDomainPermissionsPolicy</a>	Grants permission to return a domain's resource policy	Read	<a href="#">domain*</a>		
<a href="#">GetPackageVersionAsset</a>	Grants permission to return an asset (or file) that is part of a package version	Read	<a href="#">package*</a>		
<a href="#">GetPackageVersionReadme</a>	Grants permission to return a package version's readme file	Read	<a href="#">package*</a>		
<a href="#">GetRepositoryEndpoint</a>	Grants permission to return an endpoint for a repository	Read	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRepositoryPermissionsPolicy</a>	Grants permission to return a repository's resource policy	Read	<a href="#">repository*</a>		
<a href="#">ListAllowedRepositoriesForGroup</a>	Grants permission to list the allowed repositories for a package group	List	<a href="#">package-group*</a>		
<a href="#">ListAssociatedPackages</a>	Grants permission to list the packages associated to a package group	List	<a href="#">package-group*</a>		
<a href="#">ListDomains</a>	Grants permission to list the domains in the current user's AWS account	List			
<a href="#">ListPackageGroups</a>	Grants permission to list the package groups in a domain	List	<a href="#">domain*</a>		
<a href="#">ListPackageVersionAssets</a>	Grants permission to list a package version's assets	List	<a href="#">package*</a>		
<a href="#">ListPackageVersionDependencies</a>	Grants permission to list the direct dependencies of a package version	List	<a href="#">package*</a>		
<a href="#">ListPackageVersions</a>	Grants permission to list a package's versions	List	<a href="#">package*</a>		
<a href="#">ListPackages</a>	Grants permission to list the packages in a repository	List	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRepositories</a>	Grants permission to list the repositories administered by the calling account	List			
<a href="#">ListRepositoriesInDomain</a>	Grants permission to list the repositories in a domain	List	<a href="#">domain*</a>		
<a href="#">ListSubPackageGroups</a>	Grants permission to list the sub package groups for a parent package group	List	<a href="#">package-group*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a CodeArtifact resource	List	<a href="#">domain</a>		
			<a href="#">package-group</a>		
			<a href="#">repository</a>		
<a href="#">PublishPackageVersion</a>	Grants permission to publish assets and metadata to a repository endpoint	Write	<a href="#">package*</a>		
<a href="#">PutDomainPermissionsPolicy</a>	Grants permission to attach a resource policy to a domain	Write	<a href="#">domain*</a>		
<a href="#">PutPackageMetadata</a>	Grants permission to add, modify or remove package metadata using a repository endpoint	Write	<a href="#">package*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutPackageOriginConfiguration</a>	Grants permission to set origin configuration for a package	Write	<a href="#">package*</a>		
<a href="#">PutRepositoryPermissionsPolicy</a>	Grants permission to attach a resource policy to a repository	Write	<a href="#">repository*</a>		
<a href="#">ReadFromRepository</a>	Grants permission to return package assets and metadata from a repository endpoint	Read	<a href="#">repository*</a>		
<a href="#">TagResource</a>	Grants permission to tag a CodeArtifact resource	Tagging	<a href="#">domain</a>		
			<a href="#">package-group</a>		
			<a href="#">repository*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a CodeArtifact resource	Tagging	<a href="#">domain</a>		
			<a href="#">package-group</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">repository</a>		
			<a href="#">package-group*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdatePackageGroup</a>	Grants permission to modify the properties of a package group	Write	<a href="#">package-group*</a>		
<a href="#">UpdatePackageGroupOriginConfiguration</a>	Grants permission to modify the package origin configuration of a package group	Write	<a href="#">package-group*</a>		
<a href="#">UpdatePackageVersionsStatus</a>	Grants permission to modify the status of one or more versions of a package	Write	<a href="#">package*</a>		
<a href="#">UpdateRepository</a>	Grants permission to modify the properties of a repository	Write	<a href="#">repository*</a>		

## Resource types defined by AWS CodeArtifact

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

**Note**

The ARN of the package groups resource must use an encoded package group pattern.

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:codeartifact:\${Region}:\${Account}:domain/\${DomainName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">repository</a>	arn:\${Partition}:codeartifact:\${Region}:\${Account}:repository/\${DomainName}/\${RepositoryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">package-group</a>	arn:\${Partition}:codeartifact:\${Region}:\${Account}:package-group/\${DomainName}\${EncodedPackageGroupPattern}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">package</a>	arn:\${Partition}:codeartifact:\${Region}:\${Account}:package/\${DomainName}/\${RepositoryName}/\${PackageFormat}/\${PackageNamespace}/\${PackageName}	

## Condition keys for AWS CodeArtifact

AWS CodeArtifact defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS CodeBuild

AWS CodeBuild (service prefix: `codebuild`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodeBuild](#)
- [Resource types defined by AWS CodeBuild](#)
- [Condition keys for AWS CodeBuild](#)

## Actions defined by AWS CodeBuild

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteBuilds</a>	Grants permission to delete one or more builds	Write	<a href="#">project*</a>		
<a href="#">BatchGetBuildBatches</a>	Grants permission to get information about one or more build batches	Read	<a href="#">project*</a>		
<a href="#">BatchGetBuilds</a>	Grants permission to get information about one or more builds	Read	<a href="#">project*</a>		
<a href="#">BatchGetCommandExecutions</a>	Grants permission to get information about one or more command executions	Read	<a href="#">sandbox*</a>		
<a href="#">BatchGetFleets</a>	Grants permission to return an array of the Fleet objects specified by the input parameter	Read	<a href="#">fleet*</a>		
<a href="#">BatchGetProjects</a>	Grants permission to get information about one or more build projects	Read	<a href="#">project*</a>		
<a href="#">BatchGetReportGroups</a>	Grants permission to return an array of ReportGroup objects that are specified by the input reportGroupArns parameter	Read	<a href="#">report-group*</a>		
<a href="#">BatchGetReports</a>	Grants permission to return an array of the Report	Read	<a href="#">report-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	objects specified by the input reportArns parameter				
<a href="#">BatchGetSandboxes</a>	Grants permission to get information about one or more sandboxes	Read	<a href="#">project*</a>		
<a href="#">BatchPutCodeCoverage</a> [permission only]	Grants permission to add or update information about a report	Write	<a href="#">report-group*</a>		
<a href="#">BatchPutTestCases</a> [permission only]	Grants permission to add or update information about a report	Write	<a href="#">report-group*</a>		
<a href="#">CreateFleet</a>	Grants permission to create a compute fleet	Write	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:imageId</a> <a href="#">codebuild:computeType</a> <a href="#">codebuild:vpcConfig</a> <a href="#">codebuild:vpcConfig.vpcId</a> <a href="#">codebuild:vpcConfig.securityGroupIds</a> <a href="#">codebuild:vpcConfig.subnets</a> <a href="#">codebuild:computeC</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:configure</a> <a href="#">codebuild:computeConfiguration.disk</a> <a href="#">codebuild:computeConfiguration.instanceType</a> <a href="#">codebuild:computeConfiguration.machineType</a> <a href="#">codebuild:computeConfiguration.memory</a> <a href="#">codebuild:computeConfiguration.vCpu</a> <a href="#">codebuild:environmentType</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:fleetServiceRole</a>	
<a href="#">CreateProject</a>	Grants permission to create a build project	Write	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:autoRetryLimit</a> <a href="#">codebuild:concurrentBuildLimit</a> <a href="#">codebuild:artifacts</a> <a href="#">codebuild:artifacts.bucketOwnerAccess</a> <a href="#">codebuild:artifacts.encrypted</a> <a href="#">codebuild:artifact</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s.location</a> <a href="#">codebuild:secondaryArtifactS</a> <a href="#">codebuild:secondaryArtifactIdentifier</a> <a href="#">codebuild:secondaryArtifactS.bucketOwnerAccess</a> <a href="#">codebuild:secondaryArtifactS.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifact</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s.location</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.bucketOwnerAccess</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.location</a> <a href="#">codebuild:source</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:source.buildStatusConfig.targetUrl</a>  <a href="#">codebuild:source.buildStatusConfig.context</a>  <a href="#">codebuild:source.location</a>  <a href="#">codebuild:source.insecureSSL</a>  <a href="#">codebuild:source.buildspec</a>  <a href="#">codebuild:source.auth.resource</a>  <a href="#">codebuild:source.auth.type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources</a>  <a href="#">codebuild:secondarySources.sourceIdentifier</a>  <a href="#">codebuild:secondarySources.buildStatusConfig.targetUrl</a>  <a href="#">codebuild:secondarySources.buildStatusConfig.context</a>  <a href="#">codebuild:secondarySources.location</a>  <a href="#">codebuild:secondarySources.</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">auth.resource</a>  <a href="#">codebuild:secondarySources.auth.type</a>  <a href="#">codebuild:secondarySources.buildspec</a>  <a href="#">codebuild:secondarySources.insecureSSL</a>  <a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildStatusConfig.targetUrl</a>  <a href="#">codebuild:secondarySources/\${sourceIdentifier}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:buildStatusConfig.context</a>  <a href="#">codebuild:secondarySources/{sourceIdentifier}.location</a>  <a href="#">codebuild:secondarySources/{sourceIdentifier}.auth.resource</a>  <a href="#">codebuild:secondarySources/{sourceIdentifier}.auth.type</a>  <a href="#">codebuild:secondarySources/{sourceIdentifier}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:buildspec</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.insecureSsl</a> <a href="#">codebuild:logsConfig</a> <a href="#">codebuild:logsConfig.s3Logs</a> <a href="#">codebuild:logsConfig.s3Logs.bucketOwnerAccess</a> <a href="#">codebuild:logsConfig.s3Logs.encryptedOnDisabled</a> <a href="#">codebuild:logsConfig</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ig.s3Logs.location</a>  <a href="#">codebuild:logsConf</a> <a href="#">ig.s3Logs.status</a>  <a href="#">codebuild:fileSystemLocation.identifier</a>  <a href="#">codebuild:fileSystemLocation.type</a>  <a href="#">codebuild:fileSystemLocation.location</a>  <a href="#">codebuild:fileSystemLocation/\${identifier}.type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:fileSystemLocations/\${identifier}.location</a>  <a href="#">codebuild:buildBatchConfig</a>  <a href="#">codebuild:buildBatchConfig.serviceRole</a>  <a href="#">codebuild:buildBatchConfig.restrictions.computeTypesAllowed</a>  <a href="#">codebuild:buildBatchConfig.restrictions.fleetsAllowed</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:vpcConfig</a> <a href="#">codebuild:vpcConfig.subnets</a> <a href="#">codebuild:vpcConfig.vpcId</a> <a href="#">codebuild:vpcConfig.securityGroupIds</a> <a href="#">codebuild:environment</a> <a href="#">codebuild:environment.type</a> <a href="#">codebuild:environment.fleet.fleetArn</a> <a href="#">codebuild:environment.computeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment.image</a>  <a href="#">codebuild:environment.imagePullCredentialsType</a>  <a href="#">codebuild:environment.privilegedMode</a>  <a href="#">codebuild:environment.certificate</a>  <a href="#">codebuild:environment.computingConfiguration</a>  <a href="#">codebuild:environment.computingConfiguration.disk</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment.computecomputeConfiguration.instanceType</a> <a href="#">codebuild:environment.computecomputeConfiguration.machineType</a> <a href="#">codebuild:environment.computecomputeConfiguration.memory</a> <a href="#">codebuild:environment.computecomputeConfiguration.vCpu</a> <a href="#">codebuild:environment.envir</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment:environmentVariablesName</a> <a href="#">codebuild:environment:environmentVariablesName</a> <a href="#">codebuild:environment:environmentVariablesValue</a> <a href="#">codebuild:environment:environmentVariables/\${name}.value</a> <a href="#">codebuild:environment:registryCredential</a> <a href="#">codebuild:environment</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ent.registryCredential</a> <a href="#">codebuild:environment:registryCredentialProvider</a> <a href="#">codebuild:encryptionKey</a> <a href="#">codebuild:cache</a> <a href="#">codebuild:cache.type</a> <a href="#">codebuild:cache.location</a> <a href="#">codebuild:cache.modes</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:serviceRole</a>	
<a href="#">CreateReport</a> [permission only]	Grants permission to create a report. A report is created when tests specified in the buildspec file for a report groups run during the build of a project	Write	<a href="#">report-group*</a>		
<a href="#">CreateReportGroup</a>	Grants permission to create a report group	Write	<a href="#">report-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:exportConfig.s3Destination.bucket</a> <a href="#">codebuild:exportConfig.s3Destination.bucketOwner</a> <a href="#">codebuild:exportConfig.s3Destination.encryptionKey</a> <a href="#">codebuild:exportConfig.s3Destination.encrypted</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">onDisabled</a> <a href="#">codebuild:exportConfig.s3Destination.path</a>	
<a href="#">CreateWebhook</a>	<p>Grants permission to create webhook. For an existing AWS CodeBuild build project that has its source code stored in a GitHub or Bitbucket repository, enables AWS CodeBuild to start rebuilding the source code every time a code change is pushed to the repository</p>	Write	<a href="#">project*</a>	<a href="#">codebuild:buildType</a> <a href="#">codebuild:manualCreation</a> <a href="#">codebuild:scopeConfiguration.domain</a> <a href="#">codebuild:scopeConfiguration.name</a> <a href="#">codebuild:scopeConfiguration.scope</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBuildBatch</a>	Grants permission to delete a build batch	Write	<a href="#">project*</a>		
<a href="#">DeleteFleet</a>	Grants permission to delete a compute fleet	Write	<a href="#">fleet*</a>		
<a href="#">DeleteOAuthToken</a> [permission only]	Grants permission to delete an OAuth token from a connected third-party OAuth provider. Only used in the AWS CodeBuild console	Write			
<a href="#">DeleteProject</a>	Grants permission to delete a build project	Write	<a href="#">project*</a>		
<a href="#">DeleteReport</a>	Grants permission to delete a report	Write	<a href="#">report-group*</a>		
<a href="#">DeleteReportGroup</a>	Grants permission to delete a report group	Write	<a href="#">report-group*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy for the associated project or report group	Permissions management	<a href="#">project</a> <a href="#">report-group</a>		
<a href="#">DeleteSourceCredentials</a>	Grants permission to delete a set of GitHub, GitHub Enterprise, or Bitbucket source credentials	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWebhook</a>	Grants permission to delete webhook. For an existing AWS CodeBuild build project that has its source code stored in a GitHub or Bitbucket repository, stops AWS CodeBuild from rebuilding the source code every time a code change is pushed to the repository	Write	<a href="#">project*</a>		
<a href="#">DescribeCodeCoverage</a>	Grants permission to return an array of CodeCoverage objects	Read	<a href="#">report-group*</a>		
<a href="#">DescribeTestCases</a>	Grants permission to return an array of TestCase objects	Read	<a href="#">report-group*</a>		
<a href="#">GetReportGroupTrend</a>	Grants permission to analyze and accumulate test report values for the test reports in the specified report group	Read	<a href="#">report-group*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to return a resource policy for the specified project or report group	Read	<a href="#">project</a> <a href="#">report-group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportSourceCredentials</a>	Grants permission to import the source repository credentials for an AWS CodeBuild project that has its source code stored in a GitHub, GitHub Enterprise, or Bitbucket repository	Write		<a href="#">codebuild:authType</a> <a href="#">codebuild:serverType</a> <a href="#">codebuild:shouldOverwrite</a> <a href="#">codebuild:token</a> <a href="#">codebuild:username</a>	
<a href="#">InvalidateProjectCache</a>	Grants permission to reset the cache for a project	Write	<a href="#">project*</a>		
<a href="#">ListBuildBatches</a>	Grants permission to get a list of build batch IDs, with each build batch ID representing a single build batch	List			
<a href="#">ListBuildBatchesForProject</a>	Grants permission to get a list of build batch IDs for the specified build project, with each build batch ID representing a single build batch	List	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBuilds</a>	Grants permission to get a list of build IDs, with each build ID representing a single build	List			
<a href="#">ListBuildsForProject</a>	Grants permission to get a list of build IDs for the specified build project, with each build ID representing a single build	List	<a href="#">project*</a>		
<a href="#">ListCommandExecutionsForSandbox</a>	Grants permission to get a list of command execution IDs for the specified sandbox, with each command execution ID representing a single command execution	List	<a href="#">sandbox*</a>		
<a href="#">ListConnectedOAuthAccounts</a> [permission only]	Grants permission to list connected third-party OAuth providers. Only used in the AWS CodeBuild console	List			
<a href="#">ListCuratedEnvironmentImages</a>	Grants permission to get information about Docker images that are managed by AWS CodeBuild	List			
<a href="#">ListFleets</a>	Grants permission to get a list of compute fleet ARNs, with each compute fleet ARN representing a single fleet	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProjects</a>	Grants permission to get a list of build project names, with each build project name representing a single build project	List			
<a href="#">ListReportGroups</a>	Grants permission to return a list of report group ARNs. Each report group ARN represents one report group	List			
<a href="#">ListReports</a>	Grants permission to return a list of report ARNs. Each report ARN representing one report	List			
<a href="#">ListReportsForReportGroup</a>	Grants permission to return a list of report ARNs that belong to the specified report group. Each report ARN represents one report	List	<a href="#">report-group*</a>		
<a href="#">ListRepositories</a> [permission only]	Grants permission to list source code repositories from a connected third-party OAuth provider. Only used in the AWS CodeBuild console	List			
<a href="#">ListSandboxes</a>	Grants permission to get a list of sandbox IDs, with each sandbox ID representing a single sandbox	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSandboxesForProject</a>	Grants permission to get a list of sandbox IDs for the specified sandbox project, with each sandbox ID representing a single sandbox	List	<a href="#">project*</a>		
<a href="#">ListSharedProjects</a>	Grants permission to return a list of project ARNs that have been shared with the requester. Each project ARN represents one project	List			
<a href="#">ListSharedReportGroups</a>	Grants permission to return a list of report group ARNs that have been shared with the requester. Each report group ARN represents one report group	List			
<a href="#">ListSourceCredentials</a>	Grants permission to return a list of SourceCredentialsInfo objects	List			
<a href="#">PersistOAuthToken</a> [permission only]	Grants permission to save an OAuth token from a connected third-party OAuth provider. Only used in the AWS CodeBuild console	Write			
<a href="#">PutResourcePolicy</a>	Grants permission to create a resource policy for the associated project or report group	Permissions management	<a href="#">project</a> <a href="#">report-group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RetryBuild</a>	Grants permission to retry a build	Write	<a href="#">project*</a>		
<a href="#">RetryBuildBatch</a>	Grants permission to retry a build batch	Write	<a href="#">project*</a>		
<a href="#">StartBuild</a>	Grants permission to start running a build	Write	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:autoRetryLimit</a> <a href="#">codebuild:artifacts</a> <a href="#">codebuild:artifact:s.bucketOwnerAccess</a> <a href="#">codebuild:artifact:s.encryptionDisabled</a> <a href="#">codebuild:artifact:s.location</a> <a href="#">codebuild:secondaryArtifacts</a> <a href="#">codebuild:secondaryArtifacts.artifact</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tldentifier</a> <a href="#">codebuild:secondaryArtifactS.bucketOwnerAccesses</a> <a href="#">codebuild:secondaryArtifactS.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifactS.location</a> <a href="#">codebuild:secondaryArtifactS/\${artifactIdentifier}.bucketOwnerAccess</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.location</a> <a href="#">codebuild:source</a> <a href="#">codebuild:source.buildStatusConfig.targetUrl</a> <a href="#">codebuild:source.buildStatusConfig.context</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:source.location</a> <a href="#">codebuild:source.insecureSSL</a> <a href="#">codebuild:source.buildspec</a> <a href="#">codebuild:source.auth.resource</a> <a href="#">codebuild:source.auth.type</a> <a href="#">codebuild:secondarySources</a> <a href="#">codebuild:secondarySources.sourceIdentifier</a> <a href="#">codebuild:secondary</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ySources.buildStat</a> <a href="#">usConfig.targetUrl</a>  <a href="#">codebuild:secondarySources.buildStat</a> <a href="#">usConfig.context</a>  <a href="#">codebuild:secondarySources.location</a>  <a href="#">codebuild:secondarySources.auth.resource</a>  <a href="#">codebuild:secondarySources.auth.type</a>  <a href="#">codebuild:secondarySources.buildspec</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources.insecureSSL</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildStatusConfig.targetUrl</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildStatusConfig.context</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.location</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources/\${sourceIdentifier}.auth.resource</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.auth.type</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildspec</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.insecureSsl</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:logsConfig</a> <a href="#">codebuild:logsConfig.s3Logs</a> <a href="#">codebuild:logsConfig.s3Logs.bucketOwnerAccess</a> <a href="#">codebuild:logsConfig.s3Logs.encrypted</a> <a href="#">codebuild:logsConfig.s3Logs.location</a> <a href="#">codebuild:logsConfig.s3Logs.status</a> <a href="#">codebuild:environment</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment.type</a> <a href="#">codebuild:environment.fleet.fleetArn</a> <a href="#">codebuild:environment.computeType</a> <a href="#">codebuild:environment.image</a> <a href="#">codebuild:environment.imagePullCredentialsType</a> <a href="#">codebuild:environment.privilegedMode</a> <a href="#">codebuild:environment.certificate</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment:environmentVariables</a> <a href="#">codebuild:environment:environmentVariables:name</a> <a href="#">codebuild:environment:environmentVariables:value</a> <a href="#">codebuild:environment:environmentVariables/\${name}.value</a> <a href="#">codebuild:environment:registryCredential</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment:registryCredential</a> <a href="#">codebuild:environment:registryCredentialProvider</a> <a href="#">codebuild:encryptionKey</a> <a href="#">codebuild:cache</a> <a href="#">codebuild:cache.type</a> <a href="#">codebuild:cache.location</a> <a href="#">codebuild:cache.modes</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:serviceRole</a>	
<a href="#">StartBuildBatch</a>	Grants permission to start running a build batch	Write	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:artifacts</a> <a href="#">codebuild:artifacts.bucketOwnerAccess</a> <a href="#">codebuild:artifacts.encrypted</a> <a href="#">codebuild:artifacts.location</a> <a href="#">codebuild:secondaryArtifacts</a> <a href="#">codebuild:secondaryArtifacts.artifactIdentifier</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondaryArtifactS.bucketOwnerAccess</a> <a href="#">codebuild:secondaryArtifactS.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifactS.location</a> <a href="#">codebuild:secondaryArtifactS/\${artifactIdentifier}.bucketOwnerAccess</a> <a href="#">codebuild:secondaryArtifactS/\${artif</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">actIdenti fier}.enc ryptionDi sabled</a>  <a href="#">codebuild :secondar yArtifact s/\${artif actIdenti fier}.loc ation</a>  <a href="#">codebuild :source</a>  <a href="#">codebuild :source.l ocation</a>  <a href="#">codebuild :source.i nsecureSs l</a>  <a href="#">codebuild :source.b uildspec</a>  <a href="#">codebuild :source.a uth.resou rce</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:source.auth.type</a> <a href="#">codebuild:secondarySources</a> <a href="#">codebuild:secondarySources.sourceIdentifier</a> <a href="#">codebuild:secondarySources.buildStatusConfig.targetUrl</a> <a href="#">codebuild:secondarySources.buildStatusConfig.context</a> <a href="#">codebuild:secondarySources.location</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources.auth.resource</a> <a href="#">codebuild:secondarySources.auth.type</a> <a href="#">codebuild:secondarySources.buildspec</a> <a href="#">codebuild:secondarySources.insecureSSL</a> <a href="#">codebuild:secondarySources/{sourceIdentifier}.buildStatusConfig.targetUrl</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildStatusConfig.context</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.location</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.auth.resource</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.auth.type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildspec</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.insecureSsl</a> <a href="#">codebuild:logsConfig</a> <a href="#">codebuild:logsConfig.s3Logs</a> <a href="#">codebuild:logsConfig.s3Logs.bucketOwnerAccess</a> <a href="#">codebuild:logsConfig.s3Logs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:logsConfig.s3Logs.location</a> <a href="#">codebuild:logsConfig.s3Logs.status</a> <a href="#">codebuild:buildBatchConfig</a> <a href="#">codebuild:buildBatchConfig.serviceRole</a> <a href="#">codebuild:buildBatchConfig.restrictions.computeTypesAllowed</a> <a href="#">codebuild:buildBat</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">chConfig.restrictions.fleetsAllowed</a> <a href="#">codebuild:environment</a> <a href="#">codebuild:environment.type</a> <a href="#">codebuild:environment.computeType</a> <a href="#">codebuild:environment.image</a> <a href="#">codebuild:environment.imagePullCredentialsType</a> <a href="#">codebuild:environment.privilegedMode</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment:certificate</a> <a href="#">codebuild:environment:environmentVariables</a> <a href="#">codebuild:environment:environmentVariables:name</a> <a href="#">codebuild:environment:environmentVariables:value</a> <a href="#">codebuild:environment:environmentVariables/\${name}.value</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment:registryCredential</a> <a href="#">codebuild:environment:registryCredential.credential</a> <a href="#">codebuild:environment:registryCredentialProvider</a> <a href="#">codebuild:encryptionKey</a> <a href="#">codebuild:cache</a> <a href="#">codebuild:cache.type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:cache.location</a> <a href="#">codebuild:cache.modes</a> <a href="#">codebuild:serviceRole</a>	
<a href="#">StartCommandExecution</a>	Grants permission to start running a command execution	Write	<a href="#">sandbox*</a>		
<a href="#">StartSandbox</a>	Grants permission to start running a sandbox	Write	<a href="#">project*</a>		
<a href="#">StartSandboxConnection</a>	Grants permission to establish a connection to the sandbox	Write	<a href="#">sandbox*</a>		
<a href="#">StopBuild</a>	Grants permission to attempt to stop running a build	Write	<a href="#">project*</a>		
<a href="#">StopBuildBatch</a>	Grants permission to attempt to stop running a build batch	Write	<a href="#">project*</a>		
<a href="#">StopSandbox</a>	Grants permission to attempt to stop running a sandbox	Write	<a href="#">project*</a>		
<a href="#">UpdateFleet</a>	Grants permission to change the settings of an existing compute fleet	Write	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:imageId</a> <a href="#">codebuild:computeType</a> <a href="#">codebuild:vpconfig</a> <a href="#">codebuild:vpconfig.vpcId</a> <a href="#">codebuild:vpconfig.securityGroupIds</a> <a href="#">codebuild:vpconfig.subnets</a> <a href="#">codebuild:computeC</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:configure</a> <a href="#">codebuild:computeConfigurationDisk</a> <a href="#">codebuild:computeConfigurationInstanceType</a> <a href="#">codebuild:computeConfigurationMachineType</a> <a href="#">codebuild:computeConfigurationMemory</a> <a href="#">codebuild:computeConfigurationvCpu</a> <a href="#">codebuild:environment</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:fleetServiceRole</a>	
<a href="#">UpdateProject</a>	Grants permission to change the settings of an existing build project	Write	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:autoRetryLimit</a> <a href="#">codebuild:concurrentBuildLimit</a> <a href="#">codebuild:artifacts</a> <a href="#">codebuild:artifacts.bucketOwnerAccess</a> <a href="#">codebuild:artifacts.encryptionDisabled</a> <a href="#">codebuild:artifacts</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s.location</a> <a href="#">codebuild:secondaryArtifactS</a> <a href="#">codebuild:secondaryArtifactIdentifier</a> <a href="#">codebuild:secondaryArtifactS.bucketOwnerAccess</a> <a href="#">codebuild:secondaryArtifactS.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifact</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s.location</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.bucketOwnerAccess</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.encryptionDisabled</a> <a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.location</a> <a href="#">codebuild:source</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:source.buildStatusConfig.targetUrl</a> <a href="#">codebuild:source.buildStatusConfig.context</a> <a href="#">codebuild:source.location</a> <a href="#">codebuild:source.insecureSSL</a> <a href="#">codebuild:source.buildspec</a> <a href="#">codebuild:source.auth.resource</a> <a href="#">codebuild:source.auth.type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:secondarySources</a> <a href="#">codebuild:secondarySources.sourceIdentifier</a> <a href="#">codebuild:secondarySources.buildStatusConfig.targetUrl</a> <a href="#">codebuild:secondarySources.buildStatusConfig.context</a> <a href="#">codebuild:secondarySources.location</a> <a href="#">codebuild:secondarySources.</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">auth.resource</a>  <a href="#">codebuild:secondarySources.auth.type</a>  <a href="#">codebuild:secondarySources.buildspec</a>  <a href="#">codebuild:secondarySources.insecureSSL</a>  <a href="#">codebuild:secondarySources/\${sourceIdentifier}.buildStatusConfig.targetUrl</a>  <a href="#">codebuild:secondarySources/\${sourceIdentifier}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:buildStatusConfig.context</a> <a href="#">codebuild:secondarySources/{sourceIdentifier}.location</a> <a href="#">codebuild:secondarySources/{sourceIdentifier}.auth.resource</a> <a href="#">codebuild:secondarySources/{sourceIdentifier}.auth.type</a> <a href="#">codebuild:secondarySources/{sourceIdentifier}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">}.buildspec</a> <a href="#">codebuild:secondarySources/\${sourceIdentifier}.insecureSsl</a> <a href="#">codebuild:logsConfig</a> <a href="#">codebuild:logsConfig.s3Logs</a> <a href="#">codebuild:logsConfig.s3Logs.bucketOwnerAccess</a> <a href="#">codebuild:logsConfig.s3Logs.encryptedOnDisabled</a> <a href="#">codebuild:logsConf</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ig.s3Logs.location</a>  <a href="#">codebuild:logsConf</a> <a href="#">ig.s3Logs.status</a>  <a href="#">codebuild:fileSystemLocation.identifier</a>  <a href="#">codebuild:fileSystemLocation.type</a>  <a href="#">codebuild:fileSystemLocation.location</a>  <a href="#">codebuild:fileSystemLocation/\${identifier}.type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:fileSystemLocations/\${identifier}.location</a> <a href="#">codebuild:buildBatchConfig</a> <a href="#">codebuild:buildBatchConfig.serviceRole</a> <a href="#">codebuild:buildBatchConfig.restrictions.computeTypesAllowed</a> <a href="#">codebuild:buildBatchConfig.restrictions.fleetsAllowed</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:vpconfig</a> <a href="#">codebuild:vpconfig.subnets</a> <a href="#">codebuild:vpconfig.vpcId</a> <a href="#">codebuild:vpconfig.securityGroupIds</a> <a href="#">codebuild:environment</a> <a href="#">codebuild:environment.type</a> <a href="#">codebuild:environment.fleet.fleetArn</a> <a href="#">codebuild:environment.computeType</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment.image</a> <a href="#">codebuild:environment.imagePullCredentialsType</a> <a href="#">codebuild:environment.privilegedMode</a> <a href="#">codebuild:environment.certificate</a> <a href="#">codebuild:environment.computingConfiguration</a> <a href="#">codebuild:environment.computingConfiguration.disk</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment.computecomputeConfiguration.instanceType</a> <a href="#">codebuild:environment.computecomputeConfiguration.machineType</a> <a href="#">codebuild:environment.computecomputeConfiguration.memory</a> <a href="#">codebuild:environment.computecomputeConfiguration.vCpu</a> <a href="#">codebuild:environment.envir</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:environment:environmentVariablesName</a> <a href="#">codebuild:environment:environmentVariablesValue</a> <a href="#">codebuild:environment:environmentVariables/\${name}.value</a> <a href="#">codebuild:environment:registryCredential</a> <a href="#">codebuild:environment:</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ent.registryCredential</a> <a href="#">codebuild:environment:registryCredentialProvider</a> <a href="#">codebuild:encryptionKey</a> <a href="#">codebuild:cache</a> <a href="#">codebuild:cache.type</a> <a href="#">codebuild:cache.location</a> <a href="#">codebuild:cache.modes</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codebuild:serviceRole</a>	
<a href="#">UpdateProjectVisibility</a>	Grants permission to change the public visibility of a project and its builds	Write	<a href="#">project*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:projectVisibility</a>	
<a href="#">UpdateReport</a> [permission only]	Grants permission to update information about a report	Write	<a href="#">report-group*</a>		
<a href="#">UpdateReportGroup</a>	Grants permission to change the settings of an existing report group	Write	<a href="#">report-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codebuild:exportConfiguration.s3Destination.bucket</a> <a href="#">codebuild:exportConfiguration.s3Destination.bucketOwner</a> <a href="#">codebuild:exportConfiguration.s3Destination.encryptionKey</a> <a href="#">codebuild:exportConfiguration.s3Destination.encrypted</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">onDisabled</a>  <a href="#">codebuild:exportConfiguration.s3Destination.path</a>	
<a href="#">UpdateWebhook</a>	Grants permission to update the webhook associated with an AWS CodeBuild build project	Write	<a href="#">project*</a>	<a href="#">codebuild:buildType</a>  <a href="#">codebuild:manualCreation</a>  <a href="#">codebuild:scopeConfiguration.domain</a>  <a href="#">codebuild:scopeConfiguration.name</a>  <a href="#">codebuild:scopeConfiguration.scope</a>	

## Resource types defined by AWS CodeBuild

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">build</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:build/\${BuildId}	
<a href="#">build-batch</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:build-batch/\${BuildBatchId}	
<a href="#">project</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:project/\${ProjectName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">report-group</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:report-group/\${ReportGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">report</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:report/\${ReportGroupName}:\${ReportId}	
<a href="#">fleet</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:fleet/\${FleetName}:\${FleetId}	
<a href="#">sandbox</a>	arn:\${Partition}:codebuild:\${Region}:\${Account}:sandbox/\${SandboxId}	



## Condition keys for AWS CodeBuild

AWS CodeBuild defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of tag keys in the request	ArrayOfString
<a href="#">codebuild:artifacts</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:artifact.s.bucketOwnerAccess</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:artifact.s.encryptionDisabled</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:artifacts.location</a>	Filters access by the API corresponding argument value	String

Condition keys	Description	Type
<a href="#">codebuild:authType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:autoRetryLimit</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:buildArn</a>	Filters access by the ARN of the AWS CodeBuild build from which the request originated	ARN
<a href="#">codebuild:buildBatchConfig</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:buildBatchConfig.restrictions.computeTypesAllowed</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:buildBatchConfig.restrictions.fleetAllowed</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:buildBatchConfig.serviceRole</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:buildType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:cache</a>	Filters access by the API corresponding argument value	Bool

Condition keys	Description	Type
<a href="#">codebuild:cache.location</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:cache.modes</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:cache.type</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:computeConfiguration</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:computeConfiguration.disk</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:computeConfiguration.instanceType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:computeConfiguration.machineType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:computeConfiguration.memory</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:computeConfiguration.vCpu</a>	Filters access by the API corresponding argument value	Numeric

Condition keys	Description	Type
<a href="#">codebuild:computeType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:concurrentBuildLimit</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:encryptionKey</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:environment.certificate</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment.computeConfiguration</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:environment.computeConfiguration.disk</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:environment.computeConfiguration.instanceType</a>	Filters access by the API corresponding argument value	String

Condition keys	Description	Type
<a href="#">codebuild:environment.computateConfiguration.machineType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment.computateConfiguration.memory</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:environment.computateConfiguration.vCpu</a>	Filters access by the API corresponding argument value	Numeric
<a href="#">codebuild:environment.computateType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment.environmentVariables</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:environment.environmentVariables.name</a>	Filters access by the API corresponding argument value	ArrayOfString

Condition keys	Description	Type
<a href="#">codebuild:environment.Variables.value</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:environment.Variables/{name}.value</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment.fleet.fleetArn</a>	Filters access by the API corresponding argument value	ARN
<a href="#">codebuild:environment.image</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment.image.PullCredentialsType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:environment.privilegedMode</a>	Filters access by the API corresponding argument value	Bool

Condition keys	Description	Type
<a href="#">codebuild</a> <a href="#">:environm</a> <a href="#">ent.regis</a> <a href="#">tryCredential</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild</a> <a href="#">:environm</a> <a href="#">ent.regis</a> <a href="#">tryCreden</a> <a href="#">tial.credent</a> <a href="#">tial.credential</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:environm</a> <a href="#">ent.regis</a> <a href="#">tryCreden</a> <a href="#">tial.cred</a> <a href="#">entialProvider</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:environm</a> <a href="#">ent.type</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:environm</a> <a href="#">entType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:exportCo</a> <a href="#">nfig.s3De</a> <a href="#">stination.bucket</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:exportCo</a> <a href="#">nfig.s3De</a> <a href="#">stination</a> <a href="#">.bucketOwner</a>	Filters access by the API corresponding argument value	String

Condition keys	Description	Type
<a href="#">codebuild:exportConfiguration.s3Destination.encryptedonDisabled</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:exportConfiguration.s3Destination.encryptedonDisabled</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:exportConfiguration.s3Destination.path</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:filesystemLocations.identifier</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:filesystemLocations.location</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:filesystemLocations.type</a>	Filters access by the API corresponding argument value	ArrayOfString



Condition keys	Description	Type
<a href="#">codebuild:fileSystemLocations/\${identifier}.location</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:fileSystemLocations/\${identifier}.type</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:fleetServiceRole</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:imageId</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:logsConfig</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:logsConfig.s3Logs</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:logsConfig.s3Logs.bucketOwnerAccess</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:logsConfig.s3Logs.encryptionDisabled</a>	Filters access by the API corresponding argument value	Bool

Condition keys	Description	Type
<a href="#">codebuild</a> <a href="#">:logsConf</a> <a href="#">ig.s3Logs</a> <a href="#">.location</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:logsConf</a> <a href="#">ig.s3Logs.status</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:manualCreation</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild</a> <a href="#">:projectArn</a>	Filters access by the ARN of the AWS CodeBuild project from which the request originated	ARN
<a href="#">codebuild</a> <a href="#">:projectVisibility</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:scopeCon</a> <a href="#">figuration</a> <a href="#">n.domain</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:scopeCon</a> <a href="#">figuration.name</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:scopeCon</a> <a href="#">figuration.scope</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:secondar</a> <a href="#">yArtifacts</a>	Filters access by the API corresponding argument value	Bool

Condition keys	Description	Type
<a href="#">codebuild</a> <a href="#">:secondaryArtifacts.artifactIdentifier</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild</a> <a href="#">:secondaryArtifact</a> <a href="#">s.bucketOwnerAccess</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild</a> <a href="#">:secondaryArtifact</a> <a href="#">s.encryptionDisabled</a>	Filters access by the API corresponding argument value	ArrayOfBool
<a href="#">codebuild</a> <a href="#">:secondaryArtifacts.location</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild</a> <a href="#">:secondaryArtifacts/</a> <a href="#">\${artifactIdentifier}.bucketOwnerAccess</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:secondaryArtifacts/</a> <a href="#">\${artifactIdentifier}.encryptionDisabled</a>	Filters access by the API corresponding argument value	Bool

Condition keys	Description	Type
<a href="#">codebuild:secondaryArtifacts/\${artifactIdentifier}.location</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:secondarySources</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:secondarySources.auth.resource</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:secondarySources.auth.type</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:secondarySources.buildStatusConfig.context</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:secondarySources.buildStatusConfig.targetUrl</a>	Filters access by the API corresponding argument value	ArrayOfString

Condition keys	Description	Type
<a href="#">codebuild</a> <a href="#">:secondarySources</a> <a href="#">buildspec</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild</a> <a href="#">:secondarySources</a> <a href="#">insecureSsl</a>	Filters access by the API corresponding argument value	ArrayOfBool
<a href="#">codebuild</a> <a href="#">:secondarySources</a> <a href="#">location</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild</a> <a href="#">:secondarySources</a> <a href="#">sourceIdentifier</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild</a> <a href="#">:secondarySources/</a> <a href="#">\${sourceIdentifier</a> <a href="#">}.auth.resource</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:secondarySources/</a> <a href="#">\${sourceIdentifier</a> <a href="#">}.auth.type</a>	Filters access by the API corresponding argument value	String

Condition keys	Description	Type
<a href="#">codebuild</a> <a href="#">:secondarySources/</a> <a href="#">\${sourceIdentifier}.buildStatusConfig.context</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:secondarySources/</a> <a href="#">\${sourceIdentifier}.buildStatusConfig.targetUrl</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild</a> <a href="#">:secondarySources/</a> <a href="#">\${sourceIdentifier}.buildspec</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild</a> <a href="#">:secondarySources/</a> <a href="#">\${sourceIdentifier}.insecureSsl</a>	Filters access by the API corresponding argument value	Bool

Condition keys	Description	Type
<a href="#">codebuild:secondarySources/\${sourceIdentifier}.location</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:serverType</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:serviceRole</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:shouldOverwrite</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:source</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:source.auth.resource</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:source.auth.type</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:source.buildStatusConfig.context</a>	Filters access by the API corresponding argument value	String

Condition keys	Description	Type
<a href="#">codebuild:source.buildStatusConfig.targetUrl</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:source.buildspec</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:source.insecureSsl</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:source.location</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:token</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:username</a>	Filters access by the API corresponding argument value	String
<a href="#">codebuild:vpcConfig</a>	Filters access by the API corresponding argument value	Bool
<a href="#">codebuild:vpcConfig.securityGroupIds</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:vpcConfig.subnets</a>	Filters access by the API corresponding argument value	ArrayOfString
<a href="#">codebuild:vpcConfig.vpcId</a>	Filters access by the API corresponding argument value	String



## Actions, resources, and condition keys for Amazon CodeCatalyst

Amazon CodeCatalyst (service prefix: `codecatalyst`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CodeCatalyst](#)
- [Resource types defined by Amazon CodeCatalyst](#)
- [Condition keys for Amazon CodeCatalyst](#)

## Actions defined by Amazon CodeCatalyst

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptConnection</a> [permission only]	Grants permission to accept a request to connect this account to an Amazon CodeCatalyst space	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AssociateIamRoleToConnection</a>	Grants permission to associate an IAM role to a connection	Write	<a href="#">connections*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Associate IdentityCenterApplicationToSpace</a> [permission only]	Grants permission to associate an IAM Identity Center application with an Amazon CodeCatalyst space	Write	<a href="#">identity-center-application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Associate IdentityToolIdentityCenterApplication</a> [permission only]	Grants permission to associate an identity with an IAM Identity Center application for an Amazon CodeCatalyst space	Write	<a href="#">identity-center-application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchAssociateIdentitiesToIdentityCenterApplication</a> [permission only]	Grants permission to associate multiple identities with an IAM Identity Center application for an Amazon CodeCatalyst space	Write	<a href="#">identity-center-application_s*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">BatchDisassociateIdentitiesFromIdentityCenterApplication</a> [permission only]	Grants permission to disassociate multiple identities from an IAM Identity Center application for an Amazon CodeCatalyst space	Write	<a href="#">identity-center-application_s*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateIdentityCenterApplication</a> [permission only]	Grants permission to create an IAM Identity Center application	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSpace</a> [permission only]	Grants permission to create an Amazon CodeCatalyst space	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateSpaceAdminRoleAssignment</a> [permission only]	Grants permission to create an administrator role assignment for a given Amazon CodeCatalyst space and IAM Identity Center application	Write	<a href="#">identity-center-applications*</a>		
<a href="#">DeleteConnection</a> [permission only]	Grants permission to delete a connection	Write	<a href="#">connections*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteIdentityCenterApplication</a> [permission only]	Grants permission to delete an IAM Identity Center application	Write	<a href="#">identity-center-applications*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateIAMRoleFromConnection</a> [permission only]	Grants permission to disassociate an IAM role from a connection	Write	<a href="#">connections*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateIdentityCenterApplicationFromSpace</a> [permission only]	Grants permission to disassociate an IAM Identity Center application from an Amazon CodeCatalyst space	Write	<a href="#">identity-center-application*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateIdentityFromIdentityCenterApplication</a> [permission only]	Grants permission to disassociate an identity from an IAM Identity Center application for an Amazon CodeCatalyst space	Write	<a href="#">identity-center-application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetBillingAuthorization</a> [permission only]	Grants permission to describe the billing authorization for a connection	Read	<a href="#">connections*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetConnection</a> [permission only]	Grants permission to get a connection	Read	<a href="#">connections*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetIdentityCenterApplication</a> [permission only]	Grants permission to get information about an IAM Identity Center application	Read	<a href="#">identity-center-applications*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPendingConnection</a> [permission only]	Grants permission to get a pending request to connect this account to an Amazon CodeCatalyst space	Read			
<a href="#">ListConnections</a> [permission only]	Grants permission to list connections that are not pending	List			
<a href="#">ListIAMRolesForConnection</a> [permission only]	Grants permission to list IAM roles associated with a connection	List	<a href="#">connections*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListIdentityCenterApplications</a> [permission only]	Grants permission to view a list of all IAM Identity Center applications in the account	List			
<a href="#">ListIdentityCenterApplicationsForSpace</a> [permission only]	Grants permission to view a list of IAM Identity Center applications by Amazon CodeCatalyst space	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSpacesForIdentityCenterApplication</a> [permission only]	Grants permission to view a list of Amazon CodeCatalyst spaces by IAM Identity Center application	List	<a href="#">identity-center-application</a> <a href="#">s*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to list tags for an Amazon CodeCatalyst resource	Read	<a href="#">connections</a>		
			<a href="#">identity-center-application</a> <a href="#">s</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutBillingAuthorization</a> [permission only]	Grants permission to create or update the billing authorization for a connection	Write	<a href="#">connections*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectConnection</a> [permission only]	Grants permission to reject a request to connect this account to an Amazon CodeCatalyst space	Write			
<a href="#">SynchronizeIdentityCenterApplication</a> [permission only]	Grants permission to synchronize an IAM Identity Center application with the backing identity store	Write	<a href="#">identity-center-application*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a> [permission only]	Grants permission to tag an Amazon CodeCatalyst resource	Tagging	<a href="#">connections</a>  <a href="#">identity-center-application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to untag an Amazon CodeCatalyst resource	Tagging	<a href="#">connections</a>  <a href="#">identity-center-applications</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIdentityCenterApplication</a> [permission only]	Grants permission to update an IAM Identity Center application	Write	<a href="#">identity-center-application_s*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon CodeCatalyst

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connections</a>	arn:\${Partition}:codecatalyst:\${Region}:\${Account}:/connections/\${ConnectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">identity-center-applications</a>	arn:\${Partition}:codecatalyst:\${Region}:\${Account}:/identity-center-applications/\${IdentityCenterApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">space</a>	arn:\${Partition}:codecatalyst:::space/\${SpaceId}	
<a href="#">project</a>	arn:\${Partition}:codecatalyst:::space/\${SpaceId}/project/\${ProjectId}	

## Condition keys for Amazon CodeCatalyst

Amazon CodeCatalyst defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for AWS CodeCommit

AWS CodeCommit (service prefix: `codecommit`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS CodeCommit](#)
- [Resource types defined by AWS CodeCommit](#)
- [Condition keys for AWS CodeCommit](#)

## Actions defined by AWS CodeCommit

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate ApprovalRuleTemplateWithRepository</a>	Grants permission to associate an approval rule template with a repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchAssociateApprovalRuleTemplateWithRepositories</a>	Grants permission to associate an approval rule template with multiple repositories in a single operation	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchDescribeMergeConflicts</a>	Grants permission to get information about multiple merge conflicts when attempting to merge two	Read	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	commits using either the three-way merge or the squash merge option				
<a href="#">BatchDisassociateApprovalRuleTemplateFromRepositories</a>	Grants permission to remove the association between an approval rule template and multiple repositories in a single operation	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchGetCommits</a>	Grants permission to return information about one or more commits in an AWS CodeCommit repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchGetPullRequests</a> [permission only]	Grants permission to return information about one or more pull requests in an AWS CodeCommit repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchGetRepositories</a>	Grants permission to get information about multiple repositories	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">CancelUploadArchive</a> [permission only]	Grants permission to cancel the uploading of an archive to a pipeline in AWS CodePipeline	Read	<a href="#">repository</a> <a href="#">y*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApprovalRuleTemplate</a>	Grants permission to create an approval rule template that will automatically create approval rules in pull requests that match the conditions defined in the template; does not grant permission to create approval rules for individual pull requests	Write			
<a href="#">CreateBranch</a>	Grants permission to create a branch in an AWS CodeCommit repository with this API; does not control Git create branch actions	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">CreateCommit</a>	Grants permission to add, copy, move or update single or multiple files in a branch in an AWS CodeCommit repository, and generate a commit for the changes in the specified branch	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">CreatePullRequest</a>	Grants permission to create a pull request in the specified repository	Write	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePullRequestApprovalRule</a>	Grants permission to create an approval rule specific to an individual pull request; does not grant permission to create approval rule templates	Write	<a href="#">repository*</a>		
<a href="#">CreateRepository</a>	Grants permission to create an AWS CodeCommit repository	Write	<a href="#">repository*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUnreferencedMergeCommit</a>	Grants permission to create an unreferenced commit that contains the result of merging two commits using either the three-way or the squash merge option; does not control Git merge actions	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">DeleteApprovalRuleTemplate</a>	Grants permission to delete an approval rule template	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBranch</a>	Grants permission to delete a branch in an AWS CodeCommit repository with this API; does not control Git delete branch actions	Write	<a href="#">repository</a> <a href="#">y*</a>	<a href="#">codecommit:References</a>	
<a href="#">DeleteCommentContent</a>	Grants permission to delete the content of a comment made on a change, file, or commit in a repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DeleteFile</a>	Grants permission to delete a specified file from a specified branch	Write	<a href="#">repository</a> <a href="#">y*</a>	<a href="#">codecommit:References</a>	
<a href="#">DeletePullRequestApprovalRule</a>	Grants permission to delete approval rule created for a pull request if the rule was not created by an approval rule template	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DeleteRepository</a>	Grants permission to delete an AWS CodeCommit repository	Write	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMergeConflicts</a>	Grants permission to get information about specific merge conflicts when attempting to merge two commits using either the three-way or the squash merge option	Read	<a href="#">repository*</a>		
<a href="#">DescribePullRequestEvents</a>	Grants permission to return information about one or more pull request events	Read	<a href="#">repository*</a>		
<a href="#">DisassociateApprovalRuleTemplateFromRepository</a>	Grants permission to remove the association between an approval rule template and a repository	Write	<a href="#">repository*</a>		
<a href="#">EvaluatePullRequestApprovalRules</a>	Grants permission to evaluate whether a pull request is mergable based on its current approval state and approval rule requirements	Read	<a href="#">repository*</a>		
<a href="#">GetApprovalRuleTemplate</a>	Grants permission to return information about an approval rule template	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBlob</a>	Grants permission to view the encoded content of an individual file in an AWS CodeCommit repository from the AWS CodeCommit console	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetBranch</a>	Grants permission to get details about a branch in an AWS CodeCommit repository with this API; does not control Git branch actions	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetComment</a>	Grants permission to get the content of a comment made on a change, file, or commit in a repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetCommentReactions</a>	Grants permission to get the reactions on a comment	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetCommentsForComparedCommit</a>	Grants permission to get information about comments made on the comparison between two commits	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetCommentsForPullRequest</a>	Grants permission to get comments made on a pull request	Read	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCommit</a>	Grants permission to return information about a commit, including commit message and committer information, with this API; does not control Git log actions	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetCommitHistory</a> [permission only]	Grants permission to get information about the history of commits in a repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetCommitsFromMergeBase</a> [permission only]	Grants permission to get information about the difference between commits in the context of a potential merge	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetDifferences</a>	Grants permission to view information about the differences between valid commit specifiers such as a branch, tag, HEAD, commit ID, or other fully qualified reference	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetFile</a>	Grants permission to return the base-64 encoded contents of a specified file and its metadata	Read	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFolder</a>	Grants permission to return the contents of a specified folder in a repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetMergeCommit</a>	Grants permission to get information about a merge commit created by one of the merge options for pull requests that creates merge commits. Not all merge options create merge commits. This permission does not control Git merge actions	Read	<a href="#">repository</a> <a href="#">y*</a>	<a href="#">codecommit:References</a>	
<a href="#">GetMergeConflicts</a>	Grants permission to get information about merge conflicts between the before and after commit IDs for a pull request in a repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetMergeOptions</a>	Grants permission to get information about merge options for pull requests that can be used to merge two commits; does not control Git merge actions	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetObjectIdentifier</a> [permission only]	Grants permission to resolve blobs, trees, and commits to their identifier	Read	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPullRequest</a>	Grants permission to get information about a pull request in a specified repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetPullRequestApprovalStates</a>	Grants permission to retrieve the current approvals on an inputted pull request	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetPullRequestOverrideState</a>	Grants permission to retrieve the current override state of a given pull request	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetReferences</a> [permission only]	Grants permission to get details about references in an AWS CodeCommit repository; does not control Git reference actions	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetRepository</a>	Grants permission to get information about an AWS CodeCommit repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetRepositoryTriggers</a>	Grants permission to get information about triggers configured for a repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetTree</a> [permission only]	Grants permission to view the contents of a specified tree in an AWS CodeCommit repository from the AWS CodeCommit console	Read	<a href="#">repository</a> <a href="#">y*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUploadArchiveStatus</a> [permission only]	Grants permission to get status information about an archive upload to a pipeline in AWS CodePipeline	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GitPull</a> [permission only]	Grants permission to pull information from an AWS CodeCommit repository to a local repo	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GitPush</a> [permission only]	Grants permission to push information from a local repo to an AWS CodeCommit repository	Write	<a href="#">repository</a> <a href="#">y*</a>	<a href="#">codecommit:References</a>	
<a href="#">ListApprovalRuleTemplates</a>	Grants permission to list all approval rule templates in an AWS Region for the AWS account	List			
<a href="#">ListAssociatedApprovalRuleTemplatesForRepository</a>	Grants permission to list approval rule templates that are associated with a repository	List	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">ListBranches</a>	Grants permission to list branches for an AWS CodeCommit repository with this API; does not control Git branch actions	List	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFileCommitHistory</a>	Grants permission to list commits and changes to a specified file	List	<a href="#">repository*</a>		
<a href="#">ListPullRequests</a>	Grants permission to list pull requests for a specified repository	List	<a href="#">repository*</a>		
<a href="#">ListRepositories</a>	Grants permission to list information about AWS CodeCommit repositories in the current Region for your AWS account	List			
<a href="#">ListRepositoriesForApprovalRuleTemplate</a>	Grants permission to list repositories that are associated with an approval rule template	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the resource attached to a CodeCommit resource ARN	List	<a href="#">repository</a>		
<a href="#">MergeBranchesByFastForward</a>	Grants permission to merge two commits into the specified destination branch using the fast-forward merge option	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MergeBranchesBySquash</a>	Grants permission to merge two commits into the specified destination branch using the squash merge option	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">MergeBranchesByThreeWay</a>	Grants permission to merge two commits into the specified destination branch using the three-way merge option	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">MergePullRequestByFastForward</a>	Grants permission to close a pull request and attempt to merge it into the specified destination branch for that pull request at the specified commit using the fast-forward merge option	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">MergePullRequestBySquash</a>	Grants permission to close a pull request and attempt to merge it into the specified destination branch for that pull request at the specified commit using the squash merge option	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MergePullRequestByThreeWay</a>	Grants permission to close a pull request and attempt to merge it into the specified destination branch for that pull request at the specified commit using the three-way merge option	Write	<a href="#">repository</a> <a href="#">y*</a>	<a href="#">codecommit:References</a>	
<a href="#">OverridePullRequestApprovalRules</a>	Grants permission to override all approval rules for a pull request, including approval rules created by a template	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">PostCommentForComparedCommit</a>	Grants permission to post a comment on the comparison between two commits	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">PostCommentForPullRequest</a>	Grants permission to post a comment on a pull request	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">PostCommentReply</a>	Grants permission to post a comment in reply to a comment on a comparison between commits or a pull request	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">PutCommentReaction</a>	Grants permission to post a reaction on a comment	Write	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFile</a>	Grants permission to add or update a file in a branch in an AWS CodeCommit repository, and generate a commit for the addition in the specified branch	Write	<a href="#">repository*</a>	<a href="#">codecommit:References</a>	
<a href="#">PutRepositoryTriggers</a>	Grants permission to create, update, or delete triggers for a repository	Write	<a href="#">repository*</a>		
<a href="#">TagResource</a>	Grants permission to attach resource tags to a CodeCommit resource ARN	Tagging	<a href="#">repository</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TestRepositoryTriggers</a>	Grants permission to test the functionality of repository triggers by sending information to the trigger target	Write	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to disassociate resource tags from a CodeCommit resource ARN	Tagging	<a href="#">repository</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateApprovalRuleTemplateContent</a>	Grants permission to update the content of approval rule templates; does not grant permission to update content of approval rules created specifically for pull requests	Write			
<a href="#">UpdateApprovalRuleTemplateDescription</a>	Grants permission to update the description of approval rule templates	Write			
<a href="#">UpdateApprovalRuleTemplateName</a>	Grants permission to update the name of approval rule templates	Write			
<a href="#">UpdateComment</a>	Grants permission to update the contents of a comment if the identity matches the identity used to create the comment	Write	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDefaultBranch</a>	Grants permission to change the default branch in an AWS CodeCommit repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdatePullRequestApprovalRuleContent</a>	Grants permission to update the content for approval rules created for a specific pull requests; does not grant permission to update approval rule content for rules created with an approval rule template	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdatePullRequestApprovalState</a>	Grants permission to update the approval state for pull requests	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdatePullRequestDescription</a>	Grants permission to update the description of a pull request	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdatePullRequestStatus</a>	Grants permission to update the status of a pull request	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdatePullRequestTitle</a>	Grants permission to update the title of a pull request	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdateRepositoryDescription</a>	Grants permission to change the description of an AWS CodeCommit repository	Write	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRepositoryEncryptionKey</a>	Grants permission to change the AWS KMS encryption key used to encrypt and decrypt an AWS CodeCommit repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UpdateRepositoryName</a>	Grants permission to change the name of an AWS CodeCommit repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">UploadArchive</a> [permission only]	Grants permission to the service role for AWS CodePipeline to upload repository changes into a pipeline	Write	<a href="#">repository</a> <a href="#">y*</a>		

## Resource types defined by AWS CodeCommit

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">repository</a>	arn:\${Partition}:codecommit:\${Region}:\${Account}:\${RepositoryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>



## Condition keys for AWS CodeCommit

AWS CodeCommit defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">codecommit:References</a>	Filters access by Git reference to specified AWS CodeCommit actions	String

## Actions, resources, and condition keys for AWS CodeConnections

AWS CodeConnections (service prefix: `codeconnections`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodeConnections](#)

- [Resource types defined by AWS CodeConnections](#)
- [Condition keys for AWS CodeConnections](#)

## Actions defined by AWS CodeConnections

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnection</a>	Grants permission to create a Connection resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codeconnections:ProviderType</a>	
<a href="#">CreateHost</a>	Grants permission to create a host resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codeconnections:Pr</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ProviderType</a> <a href="#">codeconnections:Vp</a> <a href="#">cId</a>	
<a href="#">CreateRepositoryLink</a>	Grants permission to create a repository link	Write	<a href="#">Connection*</a>		codeconnections:PassConnection  codeconnections:UseConnection
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateSyncConfiguration</a>	Grants permission to create a template sync config	Write	<a href="#">RepositoryLink*</a>		codeconnections:PassRepository  iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codeconnections:Branch</a>	
<a href="#">DeleteConnection</a>	Grants permission to delete a Connection resource	Write	<a href="#">Connection*</a>		
<a href="#">DeleteHost</a>	Grants permission to delete a host resource	Write	<a href="#">Host*</a>		
<a href="#">DeleteRepositoryLink</a>	Grants permission to delete a repository link	Write	<a href="#">RepositoryLink*</a>		
<a href="#">DeleteSyncConfiguration</a>	Grants permission to delete a sync configuration	Write			
<a href="#">GetConnection</a>	Grants permission to get details about a Connection resource	Read	<a href="#">Connection*</a>		
<a href="#">GetConnectionToken</a> [permission only]	Grants permission to get a Connection token to call provider actions	Read	<a href="#">Connection*</a>		
<a href="#">GetHost</a>	Grants permission to get details about a host resource	Read	<a href="#">Host*</a>		
<a href="#">GetIndividualAccessToken</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	Read		<a href="#">codeconnections:ProviderType</a>	<a href="#">codeconnections:StartOAuthHandshake</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstallationUrl</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	Read		<a href="#">codeconnections:ProviderType</a>	
<a href="#">GetRepositoryLink</a>	Grants permission to describe a repository link	Read	<a href="#">RepositoryLink*</a>		
<a href="#">GetRepositorySyncStatus</a>	Grants permission to get the latest sync status for a repository	Read	<a href="#">RepositoryLink*</a>	<a href="#">codeconnections:Branch</a>	
<a href="#">GetResourceSyncStatus</a>	Grants permission to get the latest sync status for a resource (cfn stack or other resources)	Read			
<a href="#">GetSyncBlockerSummary</a>	Grants permission to describe service sync blockers on a resource (cfn stack or other resources)	Read			
<a href="#">GetSyncConfiguration</a>	Grants permission to describe a sync configuration	Read			
<a href="#">ListConnections</a>	Grants permission to list Connection resources	List	<a href="#">Connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codeconnections:ProviderTypeFilter</a>	
<a href="#">ListHosts</a>	Grants permission to list host resources	List		<a href="#">codeconnections:ProviderTypeFilter</a>	
<a href="#">ListInstallationTargets</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	List			codeconnections:GetIndividualAccessToken  codeconnections:StartOAuthHandshake
<a href="#">ListRepositoryLinks</a>	Grants permission to list repository links	List			
<a href="#">ListRepositorySyncDefinitions</a>	Grants permission to list repository sync definitions	List			
<a href="#">ListSyncConfigurations</a>	Grants permission to list sync configurations for a repository link	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to the set of key-value pairs that are used to manage the resource	List	<a href="#">Connection</a> <a href="#">Host</a> <a href="#">RepositoryLink</a>		
<a href="#">PassConnection</a> [permission only]	Grants permission to pass a Connection resource to an AWS service that accepts a Connection ARN as input, such as codepipeline:CreatePipeline	Read	<a href="#">Connection*</a>	<a href="#">codeconnections:PassedToService</a>	
<a href="#">PassRepository</a> [permission only]	Grants permission to pass a repository link resource to an AWS service that accepts a RepositoryLinkId as input, such as codeconnections:CreateSyncConfiguration	Read	<a href="#">RepositoryLink*</a>	<a href="#">codeconnections:PassedToService</a>	
<a href="#">RegisterAppCode</a> [permission only]	Grants permission to associate a third party server, such as a GitHub Enterprise Server instance, with a Host	Read		<a href="#">codeconnections:HostArn</a>	
<a href="#">StartAppRegistrationHandshake</a> [permission only]	Grants permission to associate a third party server, such as a GitHub Enterprise Server instance, with a Host	Read		<a href="#">codeconnections:HostArn</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartOAuthHandshake</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	Read		<a href="#">codeconnections:ProviderType</a>	
<a href="#">TagResource</a>	Grants permission to add or modify the tags of the given resource	Tagging	<a href="#">Connection</a>		
			<a href="#">Host</a>		
			<a href="#">RepositoryLink</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an AWS resource	Tagging	<a href="#">Connection</a>		
			<a href="#">Host</a>		
			<a href="#">RepositoryLink</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConnectionInstallation</a>	Grants permission to update a Connection resource with an installation of the CodeStar Connections App	Write	<a href="#">Connection*</a>		codeconnections:GetIndividualAccessToken  codeconnections:GetInstallationUrl  codeconnections:ListInstallationTargets  codeconnections:StartOAuthHandshake
<a href="#">UpdateHost</a>	Grants permission to update a host resource	Write	<a href="#">Host*</a>	<a href="#">codeconnections:InstallationId</a>  <a href="#">codeconnections:VpcId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRepositoryLink</a>	Grants permission to update a repository link	Write	<a href="#">RepositoryLink*</a>		
<a href="#">UpdateSyncBlocker</a>	Grants permission to update a sync blocker for a resource (cfn stack or other resources)	Write			
<a href="#">UpdateSyncConfiguration</a>	Grants permission to update a sync configuration	Write		<a href="#">codeconnections:Branch</a>	
<a href="#">UseConnection</a> [permission only]	Grants permission to use a Connection resource to call provider actions	Read	<a href="#">Connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codeconnections:BranchName</a> <a href="#">codeconnections:FullRepositoryId</a> <a href="#">codeconnections:OwnerId</a> <a href="#">codeconnections:ProviderAction</a> <a href="#">codeconnections:ProviderPermissionsRequired</a> <a href="#">codeconnections:RepositoryName</a>	

## Resource types defined by AWS CodeConnections

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Connection</a>	arn:\${Partition}:codeconnections:\${Region}:\${Account}:connection/\${ConnectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Host</a>	arn:\${Partition}:codeconnections:\${Region}:\${Account}:host/\${HostId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RepositoryLink</a>	arn:\${Partition}:codeconnections:\${Region}:\${Account}:repository-link/\${RepositoryLinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CodeConnections

AWS CodeConnections defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">codeconnections:Branch</a>	Filters access by the branch name that is passed in the request	String
<a href="#">codeconnections:BranchName</a>	Filters access by the branch name that is passed in the request. Applies only to UseConnection requests for access to a specific repository branch	String
<a href="#">codeconnections:FullRepositoryId</a>	Filters access by the repository that is passed in the request. Applies only to UseConnection requests for access to a specific repository	String
<a href="#">codeconnections:HostArn</a>	Filters access by the host resource associated with the connection used in the request	ARN
<a href="#">codeconnections:InstallationId</a>	Filters access by the third-party ID (such as the Bitbucket App installation ID for CodeConnections) that is used to update a Connection. Allows you to restrict which third-party App installations can be used to make a Connection	String
<a href="#">codeconnections:OwnerId</a>	Filters access by the owner of the third-party repository. Applies only to UseConnection requests for access to repositories owned by a specific user	String
<a href="#">codeconnections:PassedToService</a>	Filters access by the service to which the principal is allowed to pass a Connection or RepositoryLink	String
<a href="#">codeconnections:ProviderAction</a>	Filters access by the provider action in a UseConnection request such as ListRepositories. See documentation for all valid values	String

Condition keys	Description	Type
<a href="#">codeconnections:ProviderPermissionsRequired</a>	Filters access by the write permissions of a provider action in a UseConnection request. Valid types include read_only and read_write	String
<a href="#">codeconnections:ProviderType</a>	Filters access by the type of third-party provider passed in the request	String
<a href="#">codeconnections:ProviderTypeFilter</a>	Filters access by the type of third-party provider used to filter results	String
<a href="#">codeconnections:RepositoryName</a>	Filters access by the repository name that is passed in the request. Applies only to UseConnection requests for access to repositories owned by a specific user	String
<a href="#">codeconnections:VpcId</a>	Filters access by the VpcId passed in the request	String

## Actions, resources, and condition keys for AWS CodeDeploy

AWS CodeDeploy (service prefix: `codedeploy`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodeDeploy](#)
- [Resource types defined by AWS CodeDeploy](#)

- [Condition keys for AWS CodeDeploy](#)

## Actions defined by AWS CodeDeploy

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToOnPremiseInstances</a>	Grants permission to add tags to one or more on-premises instances	Tagging	<a href="#">instance*</a>		
<a href="#">BatchGetApplicationRevisions</a>	Grants permission to get information about one or more application revisions	Read	<a href="#">application*</a>		
<a href="#">BatchGetApplications</a>	Grants permission to get information about multiple applications associated with the IAM user	Read	<a href="#">application*</a>		
<a href="#">BatchGetDeploymentGroups</a>	Grants permission to get information about one or more deployment groups	Read	<a href="#">deploymentgroup*</a>		
<a href="#">BatchGetDeploymentInstances</a>	Grants permission to get information about one or more instance that are part of a deployment group	Read	<a href="#">deploymentgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetDeploymentTargets</a>	Grants permission to return an array of one or more targets associated with a deployment. This method works with all compute types and should be used instead of the deprecated BatchGetDeploymentInstances. The maximum number of targets that can be returned is 25	Read			
<a href="#">BatchGetDeployments</a>	Grants permission to get information about multiple deployments associated with the IAM user	Read	<a href="#">deploymentgroup*</a>		
<a href="#">BatchGetOnPremisesInstances</a>	Grants permission to get information about one or more on-premises instances	Read	<a href="#">instance*</a>		
<a href="#">ContinueDeployment</a>	Grants permission to start the process of rerouting traffic from instances in the original environment to instances in the replacement environment without waiting for a specified wait time to elapse	Write			
<a href="#">CreateApplication</a>	Grants permission to create an application associated with the IAM user	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCloudFormationDeployment</a> [permission only]	Grants permission to create CloudFormation deployment to cooperate orchestration for a CloudFormation stack update	Write			
<a href="#">CreateDeployment</a>	Grants permission to create a deployment for an application associated with the IAM user	Write	<a href="#">deploymentgroup*</a>		
<a href="#">CreateDeploymentConfiguration</a>	Grants permission to create a custom deployment configuration associated with the IAM user	Write	<a href="#">deploymentconfig*</a>		
<a href="#">CreateDeploymentGroup</a>	Grants permission to create a deployment group for an application associated with the IAM user	Write	<a href="#">deploymentgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete an application associated with the IAM user	Write	<a href="#">application*</a>		
<a href="#">DeleteDeploymentConfiguration</a>	Grants permission to delete a custom deployment configuration associated with the IAM user	Write	<a href="#">deploymentconfig*</a>		
<a href="#">DeleteDeploymentGroup</a>	Grants permission to delete a deployment group for an application associated with the IAM user	Write	<a href="#">deploymentgroup*</a>		
<a href="#">DeleteGitHubAccountToken</a>	Grants permission to delete a GitHub account connection	Write			
<a href="#">DeleteResourcesByExternalId</a>	Grants permission to delete resources associated with the given external Id	Write			
<a href="#">DeregisterOnPremisesInstance</a>	Grants permission to deregister an on-premises instance	Write	<a href="#">instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApplication</a>	Grants permission to get information about a single application associated with the IAM user	List	<a href="#">application*</a>		
<a href="#">GetApplicationRevision</a>	Grants permission to get information about a single application revision for an application associated with the IAM user	List	<a href="#">application*</a>		
<a href="#">GetDeployment</a>	Grants permission to get information about a single deployment to a deployment group for an application associated with the IAM user	List	<a href="#">deploymentgroup*</a>		
<a href="#">GetDeploymentConfig</a>	Grants permission to get information about a single deployment configuration associated with the IAM user	List	<a href="#">deploymentconfig*</a>		
<a href="#">GetDeploymentGroup</a>	Grants permission to get information about a single deployment group for an application associated with the IAM user	List	<a href="#">deploymentgroup*</a>		
<a href="#">GetDeploymentInstance</a>	Grants permission to get information about a single instance in a deployment associated with the IAM user	List	<a href="#">deploymentgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDeploymentTarget</a>	Grants permission to return information about a deployment target	Read			
<a href="#">GetOnPremisesInstance</a>	Grants permission to get information about a single on-premises instance	List	<a href="#">instance*</a>		
<a href="#">ListApplicationRevisions</a>	Grants permission to get information about all application revisions for an application associated with the IAM user	List	<a href="#">application*</a>		
<a href="#">ListApplications</a>	Grants permission to get information about all applications associated with the IAM user	List			
<a href="#">ListDeploymentConfigs</a>	Grants permission to get information about all deployment configurations associated with the IAM user	List			
<a href="#">ListDeploymentGroups</a>	Grants permission to get information about all deployment groups for an application associated with the IAM user	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDeploymentInstances</a>	Grants permission to get information about all instances in a deployment associated with the IAM user	List	<a href="#">deploymentgroup*</a>		
<a href="#">ListDeploymentTargets</a>	Grants permission to return an array of target IDs that are associated a deployment	List			
<a href="#">ListDeployments</a>	Grants permission to get information about all deployments to a deployment group associated with the IAM user, or to get all deployments associated with the IAM user	List	<a href="#">deploymentgroup*</a>		
<a href="#">ListGitHubAccountTokenNames</a>	Grants permission to list the names of stored connections to GitHub accounts	List			
<a href="#">ListOnPremisesInstances</a>	Grants permission to get a list of one or more on-premises instance names	List			
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for the resource identified by a specified ARN. Tags are used to organize and categorize your CodeDeploy resources	List	<a href="#">application</a> <a href="#">deploymentgroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutLifecycleEventHookExecutionStatus</a>	Grants permission to notify a lifecycle event hook execution status for associated deployment with the IAM user	Write			
<a href="#">RegisterApplicationRevision</a>	Grants permission to register information about an application revision for an application associated with the IAM user	Write	<a href="#">application*</a>		
<a href="#">RegisterOnPremisesInstance</a>	Grants permission to register an on-premises instance	Write	<a href="#">instance*</a>		
<a href="#">RemoveTagsFromOnPremisesInstances</a>	Grants permission to remove tags from one or more on-premises instances	Tagging	<a href="#">instance*</a>		
<a href="#">SkipWaitTimeForInstanceTermination</a>	Grants permission to override any specified wait time and starts terminating instances immediately after the traffic routing is complete. This action applies to blue-green deployments only	Write			
<a href="#">StopDeployment</a>	Grants permission to stop a deployment	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to associate the list of tags in the input Tags parameter with the resource identified by the ResourceArn input parameter	Tagging	<a href="#">application</a> <a href="#">deploymentgroup</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to disassociate a resource from a list of tags. The resource is identified by the ResourceArn input parameter. The tags are identified by the list of keys in the TagKeys input parameter	Tagging	<a href="#">application</a> <a href="#">deploymentgroup</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write	<a href="#">application*</a>		
<a href="#">UpdateDeploymentGroup</a>	Grants permission to change information about a single deployment group for an application associated with the IAM user	Write	<a href="#">deploymentgroup*</a>		

## Resource types defined by AWS CodeDeploy

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:codedeploy:\${Region}:\${Account}:application:\${ApplicationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deploymentconfig</a>	arn:\${Partition}:codedeploy:\${Region}:\${Account}:deploymentconfig:\${DeploymentConfigurationName}	
<a href="#">deploymentgroup</a>	arn:\${Partition}:codedeploy:\${Region}:\${Account}:deploymentgroup:\${ApplicationName}/\${DeploymentGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">instance</a>	arn:\${Partition}:codedeploy:\${Region}:\${Account}:instance:\${InstanceName}	

## Condition keys for AWS CodeDeploy

AWS CodeDeploy defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS CodeDeploy secure host commands service

AWS CodeDeploy secure host commands service (service prefix: `codedeploy-commands-secure`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodeDeploy secure host commands service](#)
- [Resource types defined by AWS CodeDeploy secure host commands service](#)
- [Condition keys for AWS CodeDeploy secure host commands service](#)

## Actions defined by AWS CodeDeploy secure host commands service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDeploymentSpecification</a>	Grants permission to get deployment specification	Read			
<a href="#">PollHostCommand</a>	Grants permission to request host agent commands	Read			
<a href="#">PutHostCommandAcknowledgment</a>	Grants permission to mark host agent commands acknowledged	Write			
<a href="#">PutHostCommandComplete</a>	Grants permission to mark host agent commands completed	Write			

## Resource types defined by AWS CodeDeploy secure host commands service

AWS CodeDeploy secure host commands service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS CodeDeploy secure host commands service, specify "Resource": "\*" in your policy.

## Condition keys for AWS CodeDeploy secure host commands service

CodeDeploy Commands Secure has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon CodeGuru

Amazon CodeGuru (service prefix: codeguru) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon CodeGuru](#)
- [Resource types defined by Amazon CodeGuru](#)
- [Condition keys for Amazon CodeGuru](#)

## Actions defined by Amazon CodeGuru

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCodeGuruFreeTrialSummary</a> [permission only]	Grants permission to get free trial summary for the CodeGuru service which includes expiration date	Read			

## Resource types defined by Amazon CodeGuru

Amazon CodeGuru does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon CodeGuru, specify "Resource": "\*" in your policy.

## Condition keys for Amazon CodeGuru

CodeGuru has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon CodeGuru Profiler

Amazon CodeGuru Profiler (service prefix: `codeguru-profiler`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CodeGuru Profiler](#)
- [Resource types defined by Amazon CodeGuru Profiler](#)
- [Condition keys for Amazon CodeGuru Profiler](#)

## Actions defined by Amazon CodeGuru Profiler

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which



the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddNotificationChannels</a>	Grants permission to add up to 2 topic ARNs of existing AWS SNS topics to publish notifications	Write	<a href="#">Profiling Group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetFrameMetricData</a>	Grants permission to get the frame metric data for a Profiling Group	List	<a href="#">Profiling Group*</a>		
<a href="#">ConfigureAgent</a>	Grants permission to register with the orchestration service and retrieve profiling configuration information, used by agents	Write	<a href="#">Profiling Group*</a>		
<a href="#">CreateProfilingGroup</a>	Grants permission to create a profiling group	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteProfilingGroup</a>	Grants permission to delete a profiling group	Write	<a href="#">Profiling Group*</a>		
<a href="#">DescribeProfilingGroup</a>	Grants permission to describe a profiling group	Read	<a href="#">Profiling Group*</a>		
<a href="#">GetFindingsReportAccountSummary</a>	Grants permission to get a summary of recent recommendations for each profiling group in the account	Read			
<a href="#">GetNotificationConfiguration</a>	Grants permission to get the notification configuration	Read	<a href="#">Profiling Group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPolicy</a>	Grants permission to get the resource policy associated with the specified Profiling Group	Read	<a href="#">Profiling Group*</a>		
<a href="#">GetProfile</a>	Grants permission to get aggregated profiles for a specific profiling group	Read	<a href="#">Profiling Group*</a>		
<a href="#">GetRecommendations</a>	Grants permission to get recommendations	Read	<a href="#">Profiling Group*</a>		
<a href="#">ListFindingsReports</a>	Grants permission to list the available recommendations reports for a specific profiling group	List	<a href="#">Profiling Group*</a>		
<a href="#">ListProfileTimes</a>	Grants permission to list the start times of the available aggregated profiles for a specific profiling group	List	<a href="#">Profiling Group*</a>		
<a href="#">ListProfilingGroups</a>	Grants permission to list profiling groups in the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Profiling Group	List	<a href="#">Profiling Group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PostAgentProfile</a>	Grants permission to submit a profile collected by an agent belonging to a specific profiling group for aggregation	Write	<a href="#">Profiling Group*</a>		
<a href="#">PutPermission</a>	Grants permission to update the list of principals allowed for an action group in the resource policy associated with the specified Profiling Group	Permissions management	<a href="#">Profiling Group*</a>		
<a href="#">RemoveNotificationChannel</a>	Grants permission to delete an already configured SNS topic arn from the notification configuration	Write	<a href="#">Profiling Group*</a>		
<a href="#">RemovePermission</a>	Grants permission to remove the permission of specified Action Group from the resource policy associated with the specified Profiling Group	Permissions management	<a href="#">Profiling Group*</a>		
<a href="#">SubmitFeedback</a>	Grants permission to submit user feedback for useful or non useful anomaly	Write	<a href="#">Profiling Group*</a>		
<a href="#">TagResource</a>	Grants permission to add or overwrite tags to a Profiling Group	Tagging	<a href="#">Profiling Group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a Profiling Group	Tagging	<a href="#">Profiling Group*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateProfilingGroup</a>	Grants permission to update a specific profiling group	Write	<a href="#">Profiling Group*</a>		

## Resource types defined by Amazon CodeGuru Profiler

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Profiling Group</a>	arn:\${Partition}:codeguru-profiler:\${Region}:\${Account}:profilingGroup/\${ProfilingGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CodeGuru Profiler

Amazon CodeGuru Profiler defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CodeGuru Reviewer

Amazon CodeGuru Reviewer (service prefix: `codeguru-reviewer`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CodeGuru Reviewer](#)
- [Resource types defined by Amazon CodeGuru Reviewer](#)
- [Condition keys for Amazon CodeGuru Reviewer](#)

## Actions defined by Amazon CodeGuru Reviewer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Repository</a>	Grants permission to associates a repository with Amazon CodeGuru Reviewer	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	codecommit:GetRepository codecommit:ListRepositories codecommit:TagResource codestar-connections:PassConnection events:PutRule events:PutTargets iam:CreateServiceLinkedRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:CreateBucket s3:ListBucket s3:PutBucketPolicy s3:PutLifecycleConfiguration
<a href="#">CreateCodeReview</a>	Grants permission to create a code review	Write	<a href="#">association*</a>		s3:GetObject
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateConnectionToken</a> [permission only]	Grants permission to perform webbased oauth handshake for 3rd party providers	Read			
<a href="#">DescribeCodeReview</a>	Grants permission to describe a code review	Read	<a href="#">association*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRecommendationFeedback</a>	Grants permission to describe a recommendation feedback on a code review	Read	<a href="#">association*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeRepositoryAssociation</a>	Grants permission to describe a repository association	Read	<a href="#">association*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateRepository</a>	Grants permission to disassociate a repository with Amazon CodeGuru Reviewer	Write	<a href="#">association*</a>		codecommit:UntagResource  events:DeleteRule  events:RemoveTargets
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMetricsData</a> [permission only]	Grants permission to view pull request metrics in console	Read			
<a href="#">ListCodeReviews</a>	Grants permission to list summary of code reviews	List			
<a href="#">ListRecommendationFeedback</a>	Grants permission to list summary of recommendation feedback on a code review	List	<a href="#">association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListRecommendations</a>	Grants permission to list summary of recommendations on a code review	List	<a href="#">association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListRepositoryAssociations</a>	Grants permission to list summary of repository associations	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the resource attached to a associated repository ARN	List	<a href="#">association*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListThirdPartyRepositories</a> [permission only]	Grants permission to list 3rd party providers repositories in console	Read			
<a href="#">PutRecommendationFeedback</a>	Grants permission to put feedback for a recommendation on a code review	Write	<a href="#">association*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to attach resource tags to an associated repository ARN	Tagging	<a href="#">association*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to disassociate resource tags from an associated repository ARN	Tagging	<a href="#">association*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon CodeGuru Reviewer

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">association</a>	arn:\${Partition}:codeguru-reviewer:\${Region}:\${Account}:association:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">codereview</a>	arn:\${Partition}:codeguru-reviewer:\${Region}:\${Account}:association:\${ResourceId}:codereview:\${CodeReviewId}	

## Condition keys for Amazon CodeGuru Reviewer

Amazon CodeGuru Reviewer defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon CodeGuru Security

Amazon CodeGuru Security (service prefix: `codeguru-security`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CodeGuru Security](#)
- [Resource types defined by Amazon CodeGuru Security](#)
- [Condition keys for Amazon CodeGuru Security](#)

## Actions defined by Amazon CodeGuru Security

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetFindings</a>	Grants permission to batch retrieve specific findings generated by CodeGuru Security	Read	<a href="#">ScanName</a> '		
<a href="#">CreateScan</a>	Grants permission to create a CodeGuru Security scan	Write	<a href="#">ScanName</a> '	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateUploadUrl</a>	Grants permission to generate a presigned url for uploading code archives	Write	<a href="#">ScanName</a> '		
<a href="#">DeleteScansByCategory</a> [permission only]	Grants permission to delete all the scans and related findings from CodeGuru Security by given category	Write			
<a href="#">GetAccountConfiguration</a>	Grants permission to retrieve the account level configurations	Read			
<a href="#">GetFindings</a>	Grants permission to retrieve findings for a scan generated by CodeGuru Security	List	<a href="#">ScanName</a> '		
<a href="#">GetMetricsSummary</a>	Grants permission to retrieve AWS account level metrics	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	summary generated by CodeGuru Security				
<a href="#">GetScan</a>	Grants permission to retrieve CodeGuru Security scan metadata	Read	<a href="#">ScanName</a> <sup>1</sup>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListFindings</a> [permission only]	Grants permission to retrieve findings generated by CodeGuru Security	List			
<a href="#">ListFindingsMetrics</a>	Grants permission to retrieve a list of account level findings metrics within a date range	List			
<a href="#">ListScans</a>	Grants permission to retrieve list of CodeGuru Security scan metadata	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of tags for a scan name ARN	Read	<a href="#">ScanName</a> <sup>1</sup>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to add tags to a scan name ARN	Tagging	<a href="#">ScanName</a> <sup>1</sup>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a scan name ARN	Tagging	<a href="#">ScanName</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountConfiguration</a>	Grants permission to update the account level configurations	Write			

## Resource types defined by Amazon CodeGuru Security

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">ScanName</a>	arn:\${Partition}:codeguru-security:\${Region}:\${Account}:scans/\${ScanName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CodeGuru Security

Amazon CodeGuru Security defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS CodePipeline

AWS CodePipeline (service prefix: `codepipeline`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodePipeline](#)
- [Resource types defined by AWS CodePipeline](#)
- [Condition keys for AWS CodePipeline](#)

## Actions defined by AWS CodePipeline

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcknowledgeJob</a>	Grants permission to view information about a specified job and whether that job has been received by the job worker	Write			
<a href="#">AcknowledgeThirdPartyJob</a>	Grants permission to confirm that a job worker has received the specified job (partner actions only)	Write			
<a href="#">CreateCustomActionType</a>	Grants permission to create a custom action that you can use in the pipelines associated with your AWS account	Write	<a href="#">actiontype*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePipeline</a>	Grants permission to create a uniquely named pipeline	Write	<a href="#">pipeline*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteCustomActionType</a>	Grants permission to delete a custom action	Write	<a href="#">actiontype*</a>		
<a href="#">DeletePipeline</a>	Grants permission to delete a specified pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">DeleteWebhook</a>	Grants permission to delete a specified webhook	Write	<a href="#">webhook*</a>		
<a href="#">DeregisterWebhookWithThirdParty</a>	Grants permission to remove the registration of a webhook with the third party specified in its configuration	Write	<a href="#">webhook*</a>		
<a href="#">DisableStageTransition</a>	Grants permission to prevent revisions from transitioning to the next stage in a pipeline	Write	<a href="#">stage*</a>		
<a href="#">EnableStageTransition</a>	Grants permission to allow revisions to transition to the next stage in a pipeline	Write	<a href="#">stage*</a>		
<a href="#">GetActionType</a>	Grants permission to view information about an action type	Read			
<a href="#">GetJobDetails</a>	Grants permission to view information about a job (custom actions only)	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPipeline</a>	Grants permission to retrieve information about a pipeline structure	Read	<a href="#">pipeline*</a>		
<a href="#">GetPipelineExecution</a>	Grants permission to view information about an execution of a pipeline, including details about artifacts, the pipeline execution ID, and the name, version, and status of the pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">GetPipelineState</a>	Grants permission to view information about the current state of the stages and actions of a pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">GetThirdPartyJobDetails</a>	Grants permission to view the details of a job for a third-party action (partner actions only)	Read			
<a href="#">ListActionExecutions</a>	Grants permission to list the action executions that have occurred in a pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">ListActionTypes</a>	Grants permission to list a summary of all the action types available for pipelines in your account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDeploymentActionExecutionTargets</a>	Grants permission to list the deployment details for deployment action executions that have occurred in a pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">ListPipelineExecutions</a>	Grants permission to list a summary of the most recent executions for a pipeline	List	<a href="#">pipeline*</a>		
<a href="#">ListPipelines</a>	Grants permission to list a summary of all the pipelines associated with your AWS account	List			
<a href="#">ListRuleExecutions</a>	Grants permission to list the rule executions that have occurred in a pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">ListRuleTypes</a>	Grants permission to list a summary of all the rule types available for pipelines in your account	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a CodePipeline resource	Read	<a href="#">actiontype</a>		
			<a href="#">pipeline</a>		
			<a href="#">webhook</a>		
<a href="#">ListWebhooks</a>	Grants permission to list all of the webhooks associated with your AWS account	List	<a href="#">webhook*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">OverrideStageCondition</a>	Grants permission to resume the pipeline execution by overriding a condition in a stage	Write	<a href="#">stage*</a>		
<a href="#">PollForJobs</a>	Grants permission to view information about any jobs for CodePipeline to act on	Write	<a href="#">actiontype*</a>		
<a href="#">PollForThirdPartyJobs</a>	Grants permission to determine whether there are any third-party jobs for a job worker to act on (partner actions only)	Write			
<a href="#">PutActionRevision</a>	Grants permission to edit actions in a pipeline	Write	<a href="#">action*</a>		
<a href="#">PutApprovalResult</a>	Grants permission to provide a response (Approved or Rejected) to a manual approval request in CodePipeline	Write	<a href="#">action*</a>		
<a href="#">PutJobFailureResult</a>	Grants permission to represent the failure of a job as returned to the pipeline by a job worker (custom actions only)	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutJobSuccessResult</a>	Grants permission to represent the success of a job as returned to the pipeline by a job worker (custom actions only)	Write			
<a href="#">PutThirdPartyJobFailureResult</a>	Grants permission to represent the failure of a third-party job as returned to the pipeline by a job worker (partner actions only)	Write			
<a href="#">PutThirdPartyJobSuccessResult</a>	Grants permission to represent the success of a third-party job as returned to the pipeline by a job worker (partner actions only)	Write			
<a href="#">PutWebhook</a>	Grants permission to create or update a webhook	Write	<a href="#">pipeline*</a> <a href="#">webhook*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterWebhookWithThirdParty</a>	Grants permission to register a webhook with the third party specified in its configuration	Write	<a href="#">webhook*</a>		
<a href="#">RetryStageExecution</a>	Grants permission to resume the pipeline execution by retrying the last failed actions in a stage	Write	<a href="#">stage*</a>		
<a href="#">RollbackStage</a>	Grants permission to rollback the stage to a previous successful execution	Write	<a href="#">stage*</a>		
<a href="#">StartPipelineExecution</a>	Grants permission to run the most recent revision through the pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">StopPipelineExecution</a>	Grants permission to stop an in-progress pipeline execution	Write	<a href="#">pipeline*</a>		
<a href="#">TagResource</a>	Grants permission to tag a CodePipeline resource	Tagging	<a href="#">actiontype</a>		
			<a href="#">pipeline</a>		
			<a href="#">webhook</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a CodePipeline resource	Tagging	<a href="#">actiontype</a> <a href="#">pipeline</a> <a href="#">webhook</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateActionType</a>	Grants permission to update an action type	Write	<a href="#">actiontype*</a>		
<a href="#">UpdatePipeline</a>	Grants permission to update a pipeline with changes to the structure of the pipeline	Write	<a href="#">pipeline*</a>		

## Resource types defined by AWS CodePipeline

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">action</a>	arn:\${Partition}:codepipeline:\${Region}:\${Account}:\${PipelineName}/\${StageName}/\${ActionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">actiontype</a>	arn:\${Partition}:codepipeline:\${Region}:\${Account}:actiontype:\${Owner}/\${Category}/\${Provider}/\${Version}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">pipeline</a>	arn:\${Partition}:codepipeline:\${Region}:\${Account}:\${PipelineName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stage</a>	arn:\${Partition}:codepipeline:\${Region}:\${Account}:\${PipelineName}/\${StageName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">webhook</a>	arn:\${Partition}:codepipeline:\${Region}:\${Account}:webhook:\${WebhookName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CodePipeline

AWS CodePipeline defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS CodeStar

AWS CodeStar (service prefix: `codestar`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodeStar](#)
- [Resource types defined by AWS CodeStar](#)
- [Condition keys for AWS CodeStar](#)

## Actions defined by AWS CodeStar

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateTeamMember</a>	Grants permission to add a user to the team for an AWS CodeStar project	Permissions management	<a href="#">project*</a>		
<a href="#">CreateProject</a>	Grants permission to create a project with minimal structure, customer policies, and no resources	Permissions management		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUserProfile</a>	Grants permission to create a profile for a user that includes user preferences, display name, and email	Write	<a href="#">user*</a>		
<a href="#">DeleteExtendedAccess</a> [permission only]	Grants permission to extended delete APIs	Write	<a href="#">project*</a>		
<a href="#">DeleteProject</a>	Grants permission to delete a project, including project resources. Does not delete users associated with the project, but does delete the IAM roles that allowed access to the project	Permissions management	<a href="#">project*</a>		
<a href="#">DeleteUserProfile</a>	Grants permission to delete a user profile in AWS CodeStar,	Write	<a href="#">user*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	including all personal preference data associated with that profile, such as display name and email address. It does not delete the history of that user, for example the history of commits made by that user				
<a href="#">DescribeProject</a>	Grants permission to describe a project and its resources	Read	<a href="#">project*</a>		
<a href="#">DescribeUserProfile</a>	Grants permission to describe a user in AWS CodeStar and the user attributes across all projects	Read			
<a href="#">DisassociateTeamMember</a>	Grants permission to remove a user from a project. Removing a user from a project also removes the IAM policies from that user that allowed access to the project and its resources	Permissions management	<a href="#">project*</a>		
<a href="#">GetExtendedAccess</a> [permission only]	Grants permission to extended read APIs	Read	<a href="#">project*</a>		
<a href="#">ListProjects</a>	Grants permission to list all projects in CodeStar associated with your AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResources</a>	Grants permission to list all resources associated with a project in CodeStar	List	<a href="#">project*</a>		
<a href="#">ListTagsForProject</a>	Grants permission to list the tags associated with a project in CodeStar	List	<a href="#">project*</a>		
<a href="#">ListTeamMembers</a>	Grants permission to list all team members associated with a project	List	<a href="#">project*</a>		
<a href="#">ListUserProfile</a>	Grants permission to list user profiles in AWS CodeStar	List			
<a href="#">PutExtendedAccess</a> [permission only]	Grants permission to extended write APIs	Write	<a href="#">project*</a>		
<a href="#">TagProject</a>	Grants permission to add tags to a project in CodeStar	Tagging	<a href="#">project*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagProject</a>	Grants permission to remove tags from a project in CodeStar	Tagging	<a href="#">project*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProject</a>	Grants permission to update a project in CodeStar	Write	<a href="#">project*</a>		
<a href="#">UpdateTeamMember</a>	Grants permission to update team member attributes within a CodeStar project	Permissions management	<a href="#">project*</a>		
<a href="#">UpdateUserProfile</a>	Grants permission to update a profile for a user that includes user preferences, display name, and email	Write	<a href="#">user*</a>		
VerifyServiceRole	Grants permission to verify whether the AWS CodeStar service role exists in the customer's account	List			

## Resource types defined by AWS CodeStar

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">project</a>	arn:\${Partition}:codestar:\${Region}:\${Account}:project/\${ProjectId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">user</a>	arn:\${Partition}:iam::\${Account}:user/\${AwsUserName}	<a href="#">iam:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CodeStar

AWS CodeStar defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
aws:RequestTag/\${TagKey}	Filters access by requests based on the allowed set of values for each of the tags	String
aws:ResourceTag/\${TagKey}	Filters access by actions based on tag-value associated with the resource	String
aws:TagKeys	Filters access by requests based on the presence of mandatory tags in the request	ArrayOfString
iam:ResourceTag/\${TagKey}	Filters access by actions based on tag-value associated with the resource	String

## Actions, resources, and condition keys for AWS CodeStar Connections

AWS CodeStar Connections (service prefix: `codestar-connections`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS CodeStar Connections](#)
- [Resource types defined by AWS CodeStar Connections](#)
- [Condition keys for AWS CodeStar Connections](#)

## Actions defined by AWS CodeStar Connections

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnection</a>	Grants permission to create a Connection resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codestar-connections:ProviderType</a>	
<a href="#">CreateHost</a>	Grants permission to create a host resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">codestar-connections:ProviderType</a> <a href="#">codestar-connections:VpcId</a>	
<a href="#">CreateRepositoryLink</a>	Grants permission to create a repository link	Write	<a href="#">Connection*</a>		codestar-connections:PassConnection  codestar-connections:UseConnection
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSyncConfiguration</a>	Grants permission to create a template sync config	Write	<a href="#">RepositoryLink*</a>		codestar-connections:PassRepository  iam:PassRole
				<a href="#">codestar-connections:Branch</a>	
<a href="#">DeleteConnection</a>	Grants permission to delete a Connection resource	Write	<a href="#">Connection*</a>		
<a href="#">DeleteHost</a>	Grants permission to delete a host resource	Write	<a href="#">Host*</a>		
<a href="#">DeleteRepositoryLink</a>	Grants permission to delete a repository link	Write	<a href="#">RepositoryLink*</a>		
<a href="#">DeleteSyncConfiguration</a>	Grants permission to delete a sync configuration	Write			
<a href="#">GetConnection</a>	Grants permission to get details about a Connection resource	Read	<a href="#">Connection*</a>		
<a href="#">GetConnectionToken</a> [permission only]	Grants permission to get a Connection token to call provider actions	Read	<a href="#">Connection*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHost</a>	Grants permission to get details about a host resource	Read	<a href="#">Host*</a>		
<a href="#">GetIndividualAccessToken</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	Read		<a href="#">codestar-connections:ProviderType</a>	codestar-connections:StartOAuthHandshake
<a href="#">GetInstallationUrl</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	Read		<a href="#">codestar-connections:ProviderType</a>	
<a href="#">GetRepositoryLink</a>	Grants permission to describe a repository link	Read	<a href="#">RepositoryLink*</a>		
<a href="#">GetRepositorySyncStatus</a>	Grants permission to get the latest sync status for a repository	Read	<a href="#">RepositoryLink*</a>	<a href="#">codestar-connections:Branch</a>	
<a href="#">GetResourceSyncStatus</a>	Grants permission to get the latest sync status for a resource (cfn stack or other resources)	Read			
<a href="#">GetSyncBlockerSummary</a>	Grants permission to describe service sync blockers on a resource (cfn stack or other resources)	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSyncConfiguration</a>	Grants permission to describe a sync configuration	Read			
<a href="#">ListConnections</a>	Grants permission to list Connection resources	List	<a href="#">Connection*</a>		
				<a href="#">codestar-connections:ProviderTypeFilter</a>	
<a href="#">ListHosts</a>	Grants permission to list host resources	List		<a href="#">codestar-connections:ProviderTypeFilter</a>	
<a href="#">ListInstallationTargets</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	List			codestar-connections:GetIndividualAccessToken  codestar-connections:StartOAuthHandshake
<a href="#">ListRepositoryLinks</a>	Grants permission to list repository links	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRepositorySyncDefinitions</a>	Grants permission to list repository sync definitions	List			
<a href="#">ListSyncConfigurations</a>	Grants permission to list sync configurations for a repository link	List			
<a href="#">ListTagsForResource</a>	Grants permission to the set of key-value pairs that are used to manage the resource	List	<a href="#">Connection</a> <a href="#">Host</a> <a href="#">RepositoryLink</a>		
<a href="#">PassConnection</a> [permission only]	Grants permission to pass a Connection resource to an AWS service that accepts a Connection ARN as input, such as codepipeline:CreatePipeline	Read	<a href="#">Connection*</a>	<a href="#">codestar-connections:PassedToService</a>	
<a href="#">PassRepository</a> [permission only]	Grants permission to pass a repository link resource to an AWS service that accepts a RepositoryLinkId as input, such as codestar-connections:CreateSyncConfiguration	Read	<a href="#">RepositoryLink*</a>	<a href="#">codestar-connections:PassedToService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterAppCode</a> [permission only]	Grants permission to associate a third party server, such as a GitHub Enterprise Server instance, with a Host	Read		<a href="#">codestar-connections:HostArn</a>	
<a href="#">StartAppRegistrationOnHandshake</a> [permission only]	Grants permission to associate a third party server, such as a GitHub Enterprise Server instance, with a Host	Read		<a href="#">codestar-connections:HostArn</a>	
<a href="#">StartOAuthHandshake</a> [permission only]	Grants permission to associate a third party, such as a Bitbucket App installation, with a Connection	Read		<a href="#">codestar-connections:ProviderType</a>	
<a href="#">TagResource</a>	Grants permission to add or modify the tags of the given resource	Tagging	<a href="#">Connection</a> <a href="#">Host</a> <a href="#">RepositoryLink</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an AWS resource	Tagging	<a href="#">Connection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Host</a>		
			<a href="#">RepositoryLink</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnectionInstallation</a>	Grants permission to update a Connection resource with an installation of the CodeStar Connections App	Write	<a href="#">Connection*</a>		codestar-connections:GetIndividualAccessToken  codestar-connections:GetInstallationUrl  codestar-connections:ListInstallationTargets  codestar-connections:StartOAuthHandshake

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codestar-connections:InstallationId</a>	
<a href="#">UpdateHost</a>	Grants permission to update a host resource	Write	<a href="#">Host*</a>		
				<a href="#">codestar-connections:Vpclid</a>	
<a href="#">UpdateRepositoryLink</a>	Grants permission to update a repository link	Write	<a href="#">RepositoryLink*</a>		
<a href="#">UpdateSyncBlocker</a>	Grants permission to update a sync blocker for a resource (cfn stack or other resources)	Write			
<a href="#">UpdateSyncConfiguration</a>	Grants permission to update a sync configuration	Write		<a href="#">codestar-connections:Branch</a>	
<a href="#">UseConnection</a> [permission only]	Grants permission to use a Connection resource to call provider actions	Read	<a href="#">Connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">codestar-connections:BranchName</a> <a href="#">codestar-connections:FullRepositoryId</a> <a href="#">codestar-connections:OwnerId</a> <a href="#">codestar-connections:ProviderAction</a> <a href="#">codestar-connections:ProviderPermissionsRequired</a> <a href="#">codestar-connections:RepositoryName</a>	

## Resource types defined by AWS CodeStar Connections

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Connection</a>	arn:\${Partition}:codestar-connections:\${Region}:\${Account}:connection/\${ConnectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Host</a>	arn:\${Partition}:codestar-connections:\${Region}:\${Account}:host/\${HostId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Repository Link</a>	arn:\${Partition}:codestar-connections:\${Region}:\${Account}:repository-link/\${RepositoryLinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CodeStar Connections

AWS CodeStar Connections defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String



Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">codestar-connections:Branch</a>	Filters access by the branch name that is passed in the request	String
<a href="#">codestar-connections:BranchName</a>	Filters access by the branch name that is passed in the request. Applies only to UseConnection requests for access to a specific repository branch	String
<a href="#">codestar-connections:FullRepositoryId</a>	Filters access by the repository that is passed in the request. Applies only to UseConnection requests for access to a specific repository	String
<a href="#">codestar-connections:HostArn</a>	Filters access by the host resource associated with the connection used in the request	ARN
<a href="#">codestar-connections:InstallationId</a>	Filters access by the third-party ID (such as the Bitbucket App installation ID for CodeStar Connections) that is used to update a Connection. Allows you to restrict which third-party App installations can be used to make a Connection	String
<a href="#">codestar-connections:OwnerId</a>	Filters access by the owner of the third-party repository. Applies only to UseConnection requests for access to repositories owned by a specific user	String

Condition keys	Description	Type
<a href="#">codestar-connections:PassedToService</a>	Filters access by the service to which the principal is allowed to pass a Connection or RepositoryLink	String
<a href="#">codestar-connections:ProviderAction</a>	Filters access by the provider action in a UseConnection request such as ListRepositories. See documentation for all valid values	String
<a href="#">codestar-connections:ProviderPermissionsRequired</a>	Filters access by the write permissions of a provider action in a UseConnection request. Valid types include read_only and read_write	String
<a href="#">codestar-connections:ProviderType</a>	Filters access by the type of third-party provider passed in the request	String
<a href="#">codestar-connections:ProviderTypeFilter</a>	Filters access by the type of third-party provider used to filter results	String
<a href="#">codestar-connections:RepositoryName</a>	Filters access by the repository name that is passed in the request. Applies only to UseConnection requests for access to repositories owned by a specific user	String
<a href="#">codestar-connections:VpcId</a>	Filters access by the VpcId passed in the request	String

## Actions, resources, and condition keys for AWS CodeStar Notifications

AWS CodeStar Notifications (service prefix: `codestar-notifications`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS CodeStar Notifications](#)
- [Resource types defined by AWS CodeStar Notifications](#)
- [Condition keys for AWS CodeStar Notifications](#)

## Actions defined by AWS CodeStar Notifications

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNotificationRule</a>	Grants permission to create a notification rule for a resource	Write	<a href="#">notificationrule*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codestar-notifications:NotificationsForResource</a>	
<a href="#">DeleteNotificationRule</a>	Grants permission to delete a notification rule for a resource	Write	<a href="#">notificationrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">codestar-</a> <a href="#">notificat</a> <a href="#">ions:Noti</a> <a href="#">fications</a> <a href="#">ForResour</a> <a href="#">ce</a>	
<a href="#">DeleteTarget</a>	Grants permission to delete a target for a notification rule	Write		<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DescribeNotificationRule</a>	Grants permission to get information about a notification rule	Read	<a href="#">notificationrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codestar-notifications:NotificationsForResource</a>	
<a href="#">ListEventTypes</a>	Grants permission to list notifications event types	List			
<a href="#">ListNotificationRules</a>	Grants permission to list notification rules in an AWS account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags attached to a notification rule resource ARN	List	<a href="#">notificationrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListTargets</a>	Grants permission to list the notification rule targets for an AWS account	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">Subscribe</a>	Grants permission to create an association between a notification rule and an Amazon SNS topic	Write	<a href="#">notificationrule*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codestar-notifications:NotificationsForResource</a>	
<a href="#">TagResource</a>	Grants permission to attach resource tags to a notification rule resource ARN	Tagging	<a href="#">notificationrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">Unsubscribe</a>	Grants permission to remove an association between a notification rule and an Amazon SNS topic	Write	<a href="#">notificationrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">codestar-notifications:NotificationsForResource</a>	
<a href="#">UntagResource</a>	Grants permission to disassociate resource tags from a notification rule resource ARN	Tagging	<a href="#">notificationrule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateNotificationRule</a>	Grants permission to change a notification rule for a resource	Write	<a href="#">notificationrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">codestar-notifications:NotificationsForResource</a>	

## Resource types defined by AWS CodeStar Notifications

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">notificationrule</a>	arn:\${Partition}:codestar-notifications:\${Region}:\${Account}:notificationrule/\${NotificationRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS CodeStar Notifications

AWS CodeStar Notifications defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString
<a href="#">codestar-notifications:NotificationsForResource</a>	Filters access based on the ARN of the resource for which notifications are configured	ARN

## Actions, resources, and condition keys for Amazon CodeWhisperer

Amazon CodeWhisperer (service prefix: `codewhisperer`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon CodeWhisperer](#)
- [Resource types defined by Amazon CodeWhisperer](#)
- [Condition keys for Amazon CodeWhisperer](#)

## Actions defined by Amazon CodeWhisperer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for CodeWhisperer customization resource	Permissions management	<a href="#">customization*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">AssociateCustomizationPermission</a>	Grants permission to invoke AssociateCustomizationPermission on CodeWhisperer	Write	<a href="#">customization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ssion</a> [permission only]				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">CreateCustomization</a> [permission only]	Grants permission to invoke CreateCustomization on CodeWhisperer	Write	<a href="#">customization*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">CreateProfile</a> [permission only]	Grants permission to invoke CreateProfile on CodeWhisperer	Write	<a href="#">profile*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">DeleteCustomization</a> [permission only]	Grants permission to invoke DeleteCustomization on CodeWhisperer	Write	<a href="#">customization*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProfile</a> [permission only]	Grants permission to invoke DeleteProfile on CodeWhisperer	Write	<a href="#">profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateCustomizationPermission</a> [permission only]	Grants permission to invoke DisassociateCustomizationPermission on CodeWhisperer	Write	<a href="#">customization*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GenerateRecommendations</a> [permission only]	Grants permission to invoke GenerateRecommendations on CodeWhisperer	Read			
<a href="#">GetCustomization</a> [permission only]	Grants permission to invoke GetCustomization on CodeWhisperer	Read	<a href="#">customization*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCustomizationPermissions</a> [permission only]	Grants permission to invoke ListCustomizationPermissions on CodeWhisperer	List	<a href="#">customization*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCustomizationVersions</a> [permission only]	Grants permission to invoke ListCustomizationVersions on CodeWhisperer	List	<a href="#">customization*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCustomizations</a> [permission only]	Grants permission to invoke ListCustomizations on CodeWhisperer	List	<a href="#">customization*</a>		
<a href="#">ListProfiles</a> [permission only]	Grants permission to invoke ListProfiles on CodeWhisperer	List			
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to invoke ListTagsForResource on CodeWhisperer	List	<a href="#">customization</a> <a href="#">profile</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a> [permission only]	Grants permission to invoke TagResource on CodeWhisperer	Tagging	<a href="#">customization</a>		
			<a href="#">profile</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to invoke UntagResource on CodeWhisperer	Tagging	<a href="#">customization</a>		
			<a href="#">profile</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCustomization</a> [permission only]	Grants permission to invoke UpdateCustomization on CodeWhisperer	Write	<a href="#">customization*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateProfile</a> [permission only]	Grants permission to invoke UpdateProfile on CodeWhisperer	Write	<a href="#">profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon CodeWhisperer

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">profile</a>	arn:\${Partition}:codewhisperer:\${Region}:\${Account}:profile/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">customization</a>	arn:\${Partition}:codewhisperer:\${Region}:\${Account}:customization/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon CodeWhisperer

Amazon CodeWhisperer defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with CodeWhisperer resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Cognito Identity

Amazon Cognito Identity (service prefix: cognito-identity) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Cognito Identity](#)
- [Resource types defined by Amazon Cognito Identity](#)
- [Condition keys for Amazon Cognito Identity](#)

## Actions defined by Amazon Cognito Identity


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIdentityPool</a>	Grants permission to create a new identity pool	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteIdentities</a>	Grants permission to delete identities from an identity pool. You can specify a list of 1-60 identities that you want to delete	Write		<a href="#">cognito-identity:IdentityPoolArn</a>	
<a href="#">DeleteUserPool</a>	Grants permission to delete a user pool. Once a pool is	Write	<a href="#">identitypool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	deleted, users will not be able to authenticate with the pool				
<a href="#">DescribeIdentity</a>	Grants permission to return metadata related to the given identity, including when the identity was created and any associated linked logins	Read		<a href="#">cognito-identity:IdentityPoolArn</a>	
<a href="#">DescribeIdentityPool</a>	Grants permission to get details about a particular identity pool, including the pool name, ID description, creation date, and current number of users	Read	<a href="#">identitypool*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCredentialsForIdentity</a>	Grants permission to return credentials for the provided identity ID	Read		<a href="#">cognito-identity-urnauth:IdentityPoolArn</a> <a href="#">cognito-identity-urnauth:AccountId</a> <a href="#">cognito-identity-urnauth:IdentityPoolArn</a> <a href="#">cognito-identity-urnauth:AccountId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetId</a>	Grants permission to generate (or retrieve) a Cognito ID. Supplying multiple logins will create an implicit linked account	Write		<a href="#">cognito-identity-urnauth:IdentityPoolArn</a>  <a href="#">cognito-identity-urnauth:AccountId</a>  <a href="#">cognito-identity-urnauth:IdentityPoolArn</a>  <a href="#">cognito-identity-urnauth:AccountId</a>	
<a href="#">GetIdentityPoolAnalytics</a>	Grants permission to get analytics data about the total current identity count for all identity pool identity provider (IdPs)	Read	<a href="#">identitypool*</a>		
<a href="#">GetIdentityPoolDailyAnalytics</a>	Grants permission to get analytics data about the number of new identities and total identities for all identity pool identity providers (IdPs)	Read	<a href="#">identitypool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdentityPoolRoles</a>	Grants permission to get the roles for an identity pool	Read	<a href="#">identitypool*</a>		
<a href="#">GetIdentityProviderDailyAnalytics</a>	Grants permission to get analytics data about the number of new identities and total identities for one identity pool identity provider (IdPs)	Read	<a href="#">identitypool*</a>		
<a href="#">GetOpenIdToken</a>	Grants permission to get an OpenID token, using a known Cognito ID	Read		<a href="#">cognito-identity-urnauth:IdentityPoolArn</a> <a href="#">cognito-identity-urnauth:AccountId</a> <a href="#">cognito-identity-urnauth:IdentityPoolArn</a> <a href="#">cognito-identity-urnauth:AccountId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOpenIdTokenForDeveloperIdentity</a>	Grants permission to register (or retrieve) a Cognito IdentityId and an OpenID Connect token for a user authenticated by your backend authentication process	Read	<a href="#">identitypool*</a>		
<a href="#">GetPrincipalTagAttributeMap</a>	Grants permission to get the principal tags for an identity pool and provider	Read	<a href="#">identitypool*</a>		
<a href="#">ListIdentities</a>	Grants permission to list the identities in an identity pool	List	<a href="#">identitypool*</a>		
<a href="#">ListIdentityPools</a>	Grants permission to list all of the Cognito identity pools registered for your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that are assigned to an Amazon Cognito identity pool	Read	<a href="#">identitypool</a>		
<a href="#">LookupDeveloperIdentity</a>	Grants permission to retrieve the IdentityId associated with a DeveloperUserIdentifier or the list of DeveloperUserIdentifiers associated with an IdentityId for an existing identity	Read	<a href="#">identitypool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MergeDeveloperIdentities</a>	Grants permission to merge two users having different IdentityIds, existing in the same identity pool, and identified by the same developer provider	Write	<a href="#">identitypool*</a>		
<a href="#">SetIdentityPoolRoles</a>	Grants permission to set the roles for an identity pool. These roles are used when making calls to GetCredentialsForIdentity action	Write			
<a href="#">SetPrincipalTagAttributeMap</a>	Grants permission to set the principal tags for an identity pool and provider. These tags are used when making calls to GetOpenIdToken action	Write			
<a href="#">TagResource</a>	Grants permission to assign a set of tags to an Amazon Cognito identity pool	Tagging	<a href="#">identitypool*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UnlinkDeveloperIdentity</a>	Grants permission to unlink a DeveloperUserIdentifier from an existing identity	Write	<a href="#">identitypool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnlinkIdentity</a>	Grants permission to unlink a federated identity from an existing account	Write		<a href="#">cognito-identity-auth:IdentityPoolArn</a>  <a href="#">cognito-identity-auth:AccountId</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from an Amazon Cognito identity pool	Tagging	<a href="#">identitypool*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateIdentityPool</a>	Grants permission to update an identity pool	Write	<a href="#">identitypool*</a>		

## Resource types defined by Amazon Cognito Identity

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">identitypool</a>	arn:\${Partition}:cognito-identity:\${Region}:\${Account}:identitypool/\${IdentityPoolId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Cognito Identity

Amazon Cognito Identity defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by a key that is present in the request	ArrayOfString
<a href="#">cognito-identity-auth:AccountId</a>	Filters access by the owning AWS account ID for identity pool authenticated users. Applies to unauthenticated (public) API operations	String
<a href="#">cognito-identity-auth:IdentityPoolArn</a>	Filters access by the identity pool ID for a given authenticated-user identity ID. Applies to unauthenticated (public) API operations	ARN

Condition keys	Description	Type
<a href="#">cognito-identity-uauth:AccountId</a>	Filters access by the owning AWS account ID of an identity pool for identity pool guest users. Applies to unauthenticated (public) API operations	String
<a href="#">cognito-identity-uauth:IdentityPoolArn</a>	Filters access by the identity pool ID for a given guest-user identity ID. Applies to unauthenticated (public) API operations	ARN
<a href="#">cognito-identity:IdentityPoolArn</a>	Filters access by the identity pool ID for a given identity ID for DeleteIdentities and DescribeIdentity	ARN

## Actions, resources, and condition keys for Amazon Cognito Sync

Amazon Cognito Sync (service prefix: `cognito-sync`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Cognito Sync](#)
- [Resource types defined by Amazon Cognito Sync](#)
- [Condition keys for Amazon Cognito Sync](#)

## Actions defined by Amazon Cognito Sync

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.



However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BulkPublish</a>	Grants permission to initiate a bulk publish of all existing datasets for an Identity Pool to the configured stream	Write	<a href="#">identitypool*</a>		
<a href="#">DeleteDataset</a>	Grants permission to delete a specific dataset	Write	<a href="#">dataset*</a>		
<a href="#">DescribeDataset</a>	Grants permission to get metadata about a dataset by identity and dataset name	Read	<a href="#">dataset*</a>		
<a href="#">DescribeIdentityPoolUsage</a>	Grants permission to get usage details (for example, data storage) about a particular identity pool	Read	<a href="#">identitypool*</a>		
<a href="#">DescribeIdentityUsage</a>	Grants permission to get usage information for an identity, including number of datasets and data usage	Read	<a href="#">identity*</a>		
<a href="#">GetBulkPublishDetails</a>	Grants permission to get the status of the last BulkPublish operation for an identity pool	Read	<a href="#">identitypool*</a>		
<a href="#">GetCognitoEvents</a>	Grants permission to get the events and the corresponding Lambda functions associated with an identity pool	Read	<a href="#">identitypool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdentityPoolConfiguration</a>	Grants permission to get the configuration settings of an identity pool	Read	<a href="#">identitypool*</a>		
<a href="#">ListDatasets</a>	Grants permission to list datasets for an identity	List	<a href="#">dataset*</a>		
<a href="#">ListIdentityPoolUsage</a>	Grants permission to get a list of identity pools registered with Cognito	Read	<a href="#">identitypool*</a>		
<a href="#">ListRecords</a>	Grants permission to get paginated records, optionally changed after a particular sync count for a dataset and identity	Read	<a href="#">dataset*</a>		
QueryRecords [permission only]	Grants permission to query records	Read			
<a href="#">RegisterDevice</a>	Grants permission to register a device to receive push sync notifications	Write	<a href="#">identity*</a>		
<a href="#">SetCognitoEvents</a>	Grants permission to set the AWS Lambda function for a given event type for an identity pool	Write	<a href="#">identitypool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
SetDatasetConfiguration [permission only]	Grants permission to configure datasets	Write	<a href="#">dataset*</a>		
<a href="#">SetIdentityPoolConfiguration</a>	Grants permission to set the necessary configuration for push sync	Write	<a href="#">identitypool*</a>		
<a href="#">SubscribeToDataset</a>	Grants permission to subscribe to receive notifications when a dataset is modified by another device	Write	<a href="#">dataset*</a>		
<a href="#">UnsubscribeFromDataset</a>	Grants permission to unsubscribe from receiving notifications when a dataset is modified by another device	Write	<a href="#">dataset*</a>		
<a href="#">UpdateRecords</a>	Grants permission to post updates to records and add and delete records for a dataset and user	Write	<a href="#">dataset*</a>		

## Resource types defined by Amazon Cognito Sync

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">dataset</a>	arn:\${Partition}:cognito-sync:\${Region}:\${Account}:identitypool/\${IdentityPoolId}/identity/\${IdentityId}/dataset/\${DatasetName}	
<a href="#">identity</a>	arn:\${Partition}:cognito-sync:\${Region}:\${Account}:identitypool/\${IdentityPoolId}/identity/\${IdentityId}	
<a href="#">identitypool</a>	arn:\${Partition}:cognito-sync:\${Region}:\${Account}:identitypool/\${IdentityPoolId}	

## Condition keys for Amazon Cognito Sync

Cognito Sync has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Cognito User Pools

Amazon Cognito User Pools (service prefix: cognito-idp) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Cognito User Pools](#)
- [Resource types defined by Amazon Cognito User Pools](#)

- [Condition keys for Amazon Cognito User Pools](#)

## Actions defined by Amazon Cognito User Pools

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddCustomAttributes</a>	Grants permission to add user attributes to the user pool schema	Write	<a href="#">userpool*</a>		
<a href="#">AddUserPoolClientSecret</a>	Grants permission to add a new secret to a confidential client	Write	<a href="#">userpool*</a>		
<a href="#">AdminAddUserToGroup</a>	Grants permission to add any user to any group	Write	<a href="#">userpool*</a>		
<a href="#">AdminConfirmSignUp</a>	Grants permission to confirm any user's registration without a confirmation code	Write	<a href="#">userpool*</a>		
<a href="#">AdminCreateUser</a>	Grants permission to create new users and send welcome messages via email or SMS	Write	<a href="#">userpool*</a>		
<a href="#">AdminDeleteUser</a>	Grants permission to delete any user	Write	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AdminDeleteUserAttributes</a>	Grants permission to delete attributes from any user	Write	<a href="#">userpool*</a>		
<a href="#">AdminDisableProviderForUser</a>	Grants permission to unlink any user pool user from a third-party identity provider (IdP) user	Write	<a href="#">userpool*</a>		
<a href="#">AdminDisableUser</a>	Grants permission to deactivate any user	Write	<a href="#">userpool*</a>		
<a href="#">AdminEnableUser</a>	Grants permission to activate any user	Write	<a href="#">userpool*</a>		
<a href="#">AdminForgetDevice</a>	Grants permission to deregister any user's devices	Write	<a href="#">userpool*</a>		
<a href="#">AdminGetDevice</a>	Grants permission to get information about any user's devices	Read	<a href="#">userpool*</a>		
<a href="#">AdminGetUser</a>	Grants permission to look up any user by user name	Read	<a href="#">userpool*</a>		
<a href="#">AdminInitiateAuth</a>	Grants permission to authenticate any user	Write	<a href="#">userpool*</a>		
<a href="#">AdminLinkProviderForUser</a>	Grants permission to link any user pool user to a third-party IdP user	Write	<a href="#">userpool*</a>		
<a href="#">AdminListDevices</a>	Grants permission to list any user's remembered devices	List	<a href="#">userpool*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AdminListGroupForUser</a>	Grants permission to list the groups that any user belongs to	List	<a href="#">userpool*</a>		
<a href="#">AdminListUserAuthEvents</a>	Grants permission to lists sign-in events for any user	Read	<a href="#">userpool*</a>		
<a href="#">AdminRemoveUserFromGroup</a>	Grants permission to remove any user from any group	Write	<a href="#">userpool*</a>		
<a href="#">AdminResetUserPassword</a>	Grants permission to reset any user's password	Write	<a href="#">userpool*</a>		
<a href="#">AdminRespondToAuthChallenge</a>	Grants permission to respond to an authentication challenge during the authentication of any user	Write	<a href="#">userpool*</a>		
<a href="#">AdminSetUserMFAPreference</a>	Grants permission to set any user's preferred MFA method	Write	<a href="#">userpool*</a>		
<a href="#">AdminSetUserPassword</a>	Grants permission to set any user's password	Write	<a href="#">userpool*</a>		
<a href="#">AdminSetUserSettings</a>	Grants permission to set user settings for any user	Write	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AdminUpdateAuthEventFeedback</a>	Grants permission to update advanced security feedback for any user's authentication event	Write	<a href="#">userpool*</a>		
<a href="#">AdminUpdateDeviceStatus</a>	Grants permission to update the status of any user's remembered devices	Write	<a href="#">userpool*</a>		
<a href="#">AdminUpdateUserAttributes</a>	Grants permission to updates any user's standard or custom attributes	Write	<a href="#">userpool*</a>		
<a href="#">AdminUserGlobalSignOut</a>	Grants permission to sign out any user from all sessions	Write	<a href="#">userpool*</a>		
<a href="#">AssociateSoftwareToken</a>	Grants permission to return a unique generated shared secret key code for the user	Write			
<a href="#">AssociateWebACL</a> [permission only]	Grants permission to associate the user pool with an AWS WAF web ACL	Write	<a href="#">userpool*</a> <a href="#">webacl*</a>		
<a href="#">ChangePassword</a>	Grants permission to change the password for a specified user in a user pool	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ConfirmDevice</a>	Grants permission to confirm tracking of the device. This API call is the call that begins device tracking	Write			
<a href="#">ConfirmForgotPassword</a>	Grants permission to allow a user to enter a confirmation code to reset a forgotten password	Write			
<a href="#">ConfirmSignUp</a>	Grants permission to confirm registration of a user and handles the existing alias from a previous user	Write			
<a href="#">CreateGroup</a>	Grants permission to create new user pool groups	Write	<a href="#">userpool*</a>		
<a href="#">CreateIdentityProvider</a>	Grants permission to add identity providers to user pools	Write	<a href="#">userpool*</a>		
<a href="#">CreateManagedLoginBranding</a>	Grants permission to create a branding settings for managed login and associate it with an app client	Write	<a href="#">userpool*</a>		
<a href="#">CreateResourceServer</a>	Grants permission to create and configure scopes for OAuth 2.0 resource servers	Write	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTerms</a>	Grants permission to create terms and associate it with an app client	Write	<a href="#">userpool*</a>		
<a href="#">CreateUserImportJob</a>	Grants permission to create user CSV import jobs	Write	<a href="#">userpool*</a>		
<a href="#">CreateUserPool</a>	Grants permission to create and set password policy for user pools	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateUserPoolClient</a>	Grants permission to create user pool app clients	Write	<a href="#">userpool*</a>		
<a href="#">CreateUserPoolDomain</a>	Grants permission to add user pool domains	Write	<a href="#">userpool*</a>		
<a href="#">DeleteGroup</a>	Grants permission to delete any empty user pool group	Write	<a href="#">userpool*</a>		
<a href="#">DeleteIdentityProvider</a>	Grants permission to delete any identity provider from user pools	Write	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteManagedLoginBranding</a>	Grants permission to delete the managed login branding style for any app client	Write	<a href="#">userpool*</a>		
<a href="#">DeleteResourceServer</a>	Grants permission to delete any OAuth 2.0 resource server from user pools	Write	<a href="#">userpool*</a>		
<a href="#">DeleteTerms</a>	Grants permission to delete terms for an app client	Write	<a href="#">userpool*</a>		
<a href="#">DeleteUser</a>	Grants permission to allow a user to delete one's self	Write			
<a href="#">DeleteUserAttributes</a>	Grants permission to delete the attributes for a user	Write			
<a href="#">DeleteUserPool</a>	Grants permission to delete user pools	Write	<a href="#">userpool*</a>		
<a href="#">DeleteUserPoolClient</a>	Grants permission to delete any user pool app client	Write	<a href="#">userpool*</a>		
<a href="#">DeleteUserPoolClientSecret</a>	Grants permission to delete a secret from a list of secrets associated with a client	Write	<a href="#">userpool*</a>		
<a href="#">DeleteUserPoolDomain</a>	Grants permission to delete any user pool domain	Write	<a href="#">userpool*</a>		
<a href="#">DescribeIdentityProvider</a>	Grants permission to describe any user pool identity provider	Read	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeManagedLogins</a>	Grants permission to get the detailed information about the branding style of managed login	Read	<a href="#">userpool*</a>		
<a href="#">DescribeManagedLoginsByClient</a>	Grants permission to get the detailed information about the branding style of managed login associated with an app client	Read	<a href="#">userpool*</a>		
<a href="#">DescribeResourceServer</a>	Grants permission to describe any OAuth 2.0 resource server	Read	<a href="#">userpool*</a>		
<a href="#">DescribeRiskConfiguration</a>	Grants permission to describe the risk configuration settings of user pools and app clients	Read	<a href="#">userpool*</a>		
<a href="#">DescribeTerms</a>	Grants permission to get the detailed information about terms for an app client	Read	<a href="#">userpool*</a>		
<a href="#">DescribeUserImportJob</a>	Grants permission to describe any user import job	Read	<a href="#">userpool*</a>		
<a href="#">DescribeUserPool</a>	Grants permission to describe user pools	Read	<a href="#">userpool*</a>		
<a href="#">DescribeUserPoolClient</a>	Grants permission to describe any user pool app client	Read	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeUserPoolDomain</a>	Grants permission to describe any user pool domain	Read			
<a href="#">DisassociateWebACL</a> [permission only]	Grants permission to disassociate the user pool with an AWS WAF web ACL	Write	<a href="#">userpool*</a>		
<a href="#">ForgetDevice</a>	Grants permission to forget the specified device	Write			
<a href="#">ForgotPassword</a>	Grants permission to send a message to the end user with a confirmation code that is required to change the user's password	Write			
<a href="#">GetCSVHeader</a>	Grants permission to generate headers for a user import .csv file	Read	<a href="#">userpool*</a>		
<a href="#">GetDevice</a>	Grants permission to get the device	Read			
<a href="#">GetGroup</a>	Grants permission to describe a user pool group	Read	<a href="#">userpool*</a>		
<a href="#">GetIdentityProviderByIdentifier</a>	Grants permission to correlate a user pool IdP identifier to the IdP Name	Read	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLogDeliveryConfiguration</a>	Grants permission to get the detailed activity logging configuration for a user pool	Read	<a href="#">userpool*</a>		
<a href="#">GetSigningCertificate</a>	Grants permission to look up signing certificates for user pools	Read	<a href="#">userpool*</a>		
<a href="#">GetTokensFromRefreshToken</a>	Grants permission to update user tokens with refresh tokens	Write			
<a href="#">GetUICustomization</a>	Grants permission to get UI customization information for the hosted UI of any app client	Read	<a href="#">userpool*</a>		
<a href="#">GetUser</a>	Grants permission to get the user attributes and metadata for a user	Read			
<a href="#">GetUserAttributeVerificationCode</a>	Grants permission to get the user attribute verification code for the specified attribute name	Read			
<a href="#">GetUserPoolMfaConfiguration</a>	Grants permission to look up the MFA configuration of user pools	Read	<a href="#">userpool*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetWebACLForResource</a> [permission only]	Grants permission to get the AWS WAF web ACL that is associated with an Amazon Cognito user pool	Read	<a href="#">userpool*</a>		
<a href="#">GlobalSignOut</a>	Grants permission to sign out users from all devices	Write			
<a href="#">InitiateAuth</a>	Grants permission to initiate the authentication flow	Write			
<a href="#">ListDevices</a>	Grants permission to list the devices	List			
<a href="#">ListGroupsWithUserPools</a>	Grants permission to list all groups in user pools	List	<a href="#">userpool*</a>		
<a href="#">ListIdentityProviders</a>	Grants permission to list all identity providers in user pools	List	<a href="#">userpool*</a>		
<a href="#">ListResourceServers</a>	Grants permission to list all resource servers in user pools	List	<a href="#">userpool*</a>		
<a href="#">ListResourcesForWebACL</a> [permission only]	Grants permission to list the user pools that are associated with an AWS WAF web ACL	List	<a href="#">webacl*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that are assigned to an Amazon Cognito user pool	List	<a href="#">userpool</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTerms</a>	Grants permission to list all terms for a user pool	List	<a href="#">userpool*</a>		
<a href="#">ListUserImportJobs</a>	Grants permission to list all user import jobs	List	<a href="#">userpool*</a>		
<a href="#">ListUserPoolClientSecrets</a>	Grants permission to list all secrets associated with a client	List	<a href="#">userpool*</a>		
<a href="#">ListUserPoolClients</a>	Grants permission to list all app clients in user pools	List	<a href="#">userpool*</a>		
<a href="#">ListUserPools</a>	Grants permission to list all user pools	List			
<a href="#">ListUsers</a>	Grants permission to list all user pool users	List	<a href="#">userpool*</a>		
<a href="#">ListUsersInGroup</a>	Grants permission to list the users in any group	List	<a href="#">userpool*</a>		
<a href="#">ResendConfirmationCode</a>	Grants permission to resend the confirmation (for confirmation of registration) to a specific user in the user pool	Write			
<a href="#">RespondToAuthChallenge</a>	Grants permission to respond to the authentication challenge	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokeToken</a>	Grants permission to revoke all of the access tokens generated by the specified refresh token	Write			
<a href="#">SetLogDeliveryConfiguration</a>	Grants permission to set up or modify the detailed activity logging configuration of a user pool	Write	<a href="#">userpool*</a>		
<a href="#">SetRiskConfiguration</a>	Grants permission to set risk configuration for user pools and app clients	Write	<a href="#">userpool*</a>		
<a href="#">SetUICustomization</a>	Grants permission to customize the hosted UI for any app client	Write	<a href="#">userpool*</a>		
<a href="#">SetUserMFAPreference</a>	Grants permission to set MFA preference for the user in the userpool	Write			
<a href="#">SetUserPoolMfaConfig</a>	Grants permission to set user pool MFA configuration	Write	<a href="#">userpool*</a>		
<a href="#">SetUserSettings</a>	Grants permission to set the user settings like multi-factor authentication (MFA)	Write			
<a href="#">SignUp</a>	Grants permission to register the user in the specified user pool and creates a user name, password, and user attributes	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartUserImportJob</a>	Grants permission to start any user import job	Write	<a href="#">userpool*</a>		
<a href="#">StopUserImportJob</a>	Grants permission to stop any user import job	Write	<a href="#">userpool*</a>		
<a href="#">TagResource</a>	Grants permission to tag a user pool	Tagging	<a href="#">userpool</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a user pool	Tagging	<a href="#">userpool</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAuthEventFeedback</a>	Grants permission to update the feedback for the user authentication event	Write	<a href="#">userpool*</a>		
<a href="#">UpdateDeviceStatus</a>	Grants permission to update the device status	Write			
<a href="#">UpdateGroup</a>	Grants permission to update the configuration of any group	Write	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIdentityProvider</a>	Grants permission to update the configuration of any user pool IdP	Write	<a href="#">userpool*</a>		
<a href="#">UpdateManagedLoginBranding</a>	Grants permission to update the branding settings of a managed login	Write	<a href="#">userpool*</a>		
<a href="#">UpdateResourceServer</a>	Grants permission to update the configuration of any OAuth 2.0 resource server	Write	<a href="#">userpool*</a>		
<a href="#">UpdateTerms</a>	Grants permission to update terms for an app client	Write	<a href="#">userpool*</a>		
<a href="#">UpdateUserAttributes</a>	Grants permission to allow a user to update a specific attribute (one at a time)	Write			
<a href="#">UpdateUserPool</a>	Grants permission to updates the configuration of user pools	Write	<a href="#">userpool*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateUserPoolClient</a>	Grants permission to update any user pool client	Write	<a href="#">userpool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateUserPoolDomain</a>	Grants permission to replace the certificate for any custom domain	Write	<a href="#">userpool*</a>		
<a href="#">VerifySoftwareToken</a>	Grants permission to register a user's entered TOTP code and mark the user's software token MFA status as verified if successful	Write			
<a href="#">VerifyUserAttribute</a>	Grants permission to verify a user attribute using a one time verification code	Write			

## Resource types defined by Amazon Cognito User Pools

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">userpool</a>	arn:\${Partition}:cognito-idp:\${Region}:\${Account}:userpool/\${UserPoolId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">webacl</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/webacl/\${Name}/\${Id}	

## Condition keys for Amazon Cognito User Pools

Amazon Cognito User Pools defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by a key that is present in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Comprehend

Amazon Comprehend (service prefix: `comprehend`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Comprehend](#)
- [Resource types defined by Amazon Comprehend](#)
- [Condition keys for Amazon Comprehend](#)

## Actions defined by Amazon Comprehend

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the



Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDetectDominantLanguage</a>	Grants permission to detect the language or languages present in the list of text documents	Read			
<a href="#">BatchDetectEntities</a>	Grants permission to detect the named entities ("People", "Places", "Locations", etc) within the given list of text documents	Read			
<a href="#">BatchDetectKeyPhrases</a>	Grants permission to detect the phrases in the list of text documents that are most indicative of the content	Read			
<a href="#">BatchDetectSentiment</a>	Grants permission to detect the sentiment of a text in the list of documents (Positive, Negative, Neutral, or Mixed)	Read			
<a href="#">BatchDetectSyntax</a>	Grants permission to detect syntactic information (like Part of Speech, Tokens) in a list of text documents	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDetectTargetedSentiment</a>	Grants permission to detect the sentiments associated with specific entities (such as brands or products) within the given list of text documents	Read			
<a href="#">ClassifyDocument</a>	Grants permission to create a new document classification request to analyze a single document in real-time , using a previously created and trained custom model and an endpoint	Read	<a href="#">document-classifier-endpoint*</a>		
<a href="#">ContainsPersonallyIdentifiableEntities</a>	Grants permission to classify the personally identifiable information within given documents in real-time	Read			
<a href="#">CreateDataset</a>	Grants permission to create a new dataset within a flywheel	Write	<a href="#">flywheel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDocumentClassifier</a>	Grants permission to create a new document classifier that you can use to categorize documents	Write	<a href="#">document-classifier*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:ModelNamesKey</a> <a href="#">comprehend:OutputNamesKey</a> <a href="#">comprehend:VpcSecurityGroups</a> <a href="#">comprehend:VpcSubnets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEndpoint</a>	Grants permission to create a model-specific endpoint for synchronous inference for a previously trained custom model	Write	<a href="#">document-classifier*</a>  <a href="#">document-classifier-endpoint*</a>  <a href="#">entity-recognizer*</a>  <a href="#">entity-recognizer-endpoint*</a>  <a href="#">flywheel</a>	  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>    <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateEntityRecognizer</a>	Grants permission to create an entity recognizer using submitted files	Write	<a href="#">entity-recognizer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:ModelKeys</a> <a href="#">comprehend:VpcSecurityGroups</a> <a href="#">comprehend:VpcSubnets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFlywheel</a>	Grants permission to create a new flywheel that you can use to train model versions	Write	<a href="#">flywheel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:ModelKeys</a> <a href="#">comprehend:DataLakeKeys</a> <a href="#">comprehend:VpcSecurityGroups</a> <a href="#">comprehend:VpcSubnets</a>	
			<a href="#">document-classifier</a>		
			<a href="#">entity-recognizer</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDocumentClassifier</a>	Grants permission to delete a previously created document classifier	Write	<a href="#">document-classifier*</a>		
<a href="#">DeleteEndpoint</a>	Grants permission to delete a model-specific endpoint for a previously-trained custom model. All endpoints must be deleted in order for the model to be deleted	Write	<a href="#">document-classifier-endpoint*</a> <a href="#">entity-recognizer-endpoint*</a>		
<a href="#">DeleteEntityRecognizer</a>	Grants permission to delete a submitted entity recognizer	Write	<a href="#">entity-recognizer*</a>		
<a href="#">DeleteFlywheel</a>	Grants permission to Delete a flywheel	Write	<a href="#">flywheel*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to remove policy on resource	Write	<a href="#">document-classifier*</a> <a href="#">entity-recognizer*</a>		
<a href="#">DescribeDataset</a>	Grants permission to get the properties associated with a dataset	Read	<a href="#">flywheel-dataset*</a>		
<a href="#">DescribeDocumentClassificationJob</a>	Grants permission to get the properties associated with a document classification job	Read	<a href="#">document-classification-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDocumentClassifier</a>	Grants permission to get the properties associated with a document classifier	Read	<a href="#">document-classifier*</a>		
<a href="#">DescribeDominantLanguageDetectionJob</a>	Grants permission to get the properties associated with a dominant language detection job	Read	<a href="#">dominant-language-detection-job*</a>		
<a href="#">DescribeEndpoint</a>	Grants permission to get the properties associated with a specific endpoint. Use this operation to get the status of an endpoint	Read	<a href="#">document-classifier-endpoint*</a> <a href="#">entity-recognizer-endpoint*</a>		
<a href="#">DescribeEntitiesDetectionJob</a>	Grants permission to get the properties associated with an entities detection job	Read	<a href="#">entities-detection-job*</a>		
<a href="#">DescribeEntityRecognizer</a>	Grants permission to provide details about an entity recognizer including status, S3 buckets containing training data, recognizer metadata, metrics, and so on	Read	<a href="#">entity-recognizer*</a>		
<a href="#">DescribeEventsDetectionJob</a>	Grants permission to get the properties associated with an Events detection job	Read	<a href="#">events-detection-job*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFlywheel</a>	Grants permission to get the properties associated with a flywheel	Read	<a href="#">flywheel*</a>		
<a href="#">DescribeFlywheelIteration</a>	Grants permission to get the properties associated with a flywheel iteration for a flywheel	Read	<a href="#">flywheel*</a>	<a href="#">comprehend:FlywheelIterationId</a>	
<a href="#">DescribeKeyPhrasesDetectionJob</a>	Grants permission to get the properties associated with a key phrases detection job	Read	<a href="#">key-phrases-detection-job*</a>		
<a href="#">DescribePiiEntitiesDetectionJob</a>	Grants permission to get the properties associated with a PII entities detection job	Read	<a href="#">pii-entities-detection-job*</a>		
<a href="#">DescribeResourcePolicy</a>	Grants permission to read attached policy on resource	Read	<a href="#">document-classifier*</a> <a href="#">entity-recognizer*</a>		
<a href="#">DescribeSentimentDetectionJob</a>	Grants permission to get the properties associated with a sentiment detection job	Read	<a href="#">sentiment-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTargetedSentimentDetectionJob</a>	Grants permission to get the properties associated with a targeted sentiment detection job	Read	<a href="#">targeted-sentiment-detection-job*</a>		
<a href="#">DescribeTopicsDetectionJob</a>	Grants permission to get the properties associated with a topic detection job	Read	<a href="#">topics-detection-job*</a>		
<a href="#">DetectDominantLanguage</a>	Grants permission to detect the language or languages present in the text	Read			
<a href="#">DetectEntities</a>	Grants permission to detect the named entities ("People", "Places", "Locations", etc) within the given text document	Read	<a href="#">entity-recognizer-endpoint</a>		
<a href="#">DetectKeyPhrases</a>	Grants permission to detect the phrases in the text that are most indicative of the content	Read			
<a href="#">DetectPiiEntities</a>	Grants permission to detect the personally identifiable information entities ("Name", "SSN", "PIN", etc) within the given text document	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetectSentiment</a>	Grants permission to detect the sentiment of a text in a document (Positive, Negative, Neutral, or Mixed)	Read			
<a href="#">DetectSyntax</a>	Grants permission to detect syntactic information (like Part of Speech, Tokens) in a text document	Read			
<a href="#">DetectTargetedSentiment</a>	Grants permission to detect the sentiments associated with specific entities (such as brands or products) in a document	Read			
<a href="#">DetectToxicContent</a>	Grants permission to detect toxic content within the given list of text segments	Read			
<a href="#">ImportModel</a>	Grants permission to import a trained Comprehend model	Write	<a href="#">document-classifier*</a>  <a href="#">entity-recognizer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:ModelKeys</a>	
<a href="#">ListDatasets</a>	Grants permission to get a list of the Datasets associated with a flywheel	Read	<a href="#">flywheel*</a>		
<a href="#">ListDocumentClassificationJobs</a>	Grants permission to get a list of the document classification jobs that you have submitted	Read			
<a href="#">ListDocumentClassifierSummaries</a>	Grants permission to get a list of summaries of the document classifiers that you have created	Read			
<a href="#">ListDocumentClassifiers</a>	Grants permission to get a list of the document classifiers that you have created	Read			
<a href="#">ListDominantLanguageDetectionJobs</a>	Grants permission to get a list of the dominant language detection jobs that you have submitted	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEndpoints</a>	Grants permission to get a list of all existing endpoints that you've created	Read			
<a href="#">ListEntityDetectionJobs</a>	Grants permission to get a list of the entity detection jobs that you have submitted	Read			
<a href="#">ListEntityRecognizerSummaries</a>	Grants permission to get a list of summaries for the entity recognizers that you have created	Read			
<a href="#">ListEntityRecognizers</a>	Grants permission to get a list of the properties of all entity recognizers that you created, including recognizers currently in training	Read			
<a href="#">ListEventsDetectionJobs</a>	Grants permission to get a list of Events detection jobs that you have submitted	Read			
<a href="#">ListFlywheelIterationHistory</a>	Grants permission to get a list of iterations associated for a flywheel	Read	<a href="#">flywheel*</a>		
<a href="#">ListFlywheels</a>	Grants permission to get a list of the flywheels that you have created	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListKeyPhrasesDetectionJobs</a>	Grants permission to get a list of key phrase detection jobs that you have submitted	Read			
<a href="#">ListPiiEntitiesDetectionJobs</a>	Grants permission to get a list of PII entities detection jobs that you have submitted	Read			
<a href="#">ListSentimentDetectionJobs</a>	Grants permission to get a list of sentiment detection jobs that you have submitted	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">document-classification-job</a>		
			<a href="#">document-classifier</a>		
			<a href="#">document-classifier-endpoint</a>		
			<a href="#">dominant-language-detection-job</a>		
			<a href="#">entities-detection-job</a>		
			<a href="#">entity-recognizer</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">entity-recognizer-endpoint</a>		
			<a href="#">events-detection-job</a>		
			<a href="#">flywheel</a>		
			<a href="#">flywheel-dataset</a>		
			<a href="#">key-phrases-detection-job</a>		
			<a href="#">pii-entities-detection-job</a>		
			<a href="#">sentiment-detection-job</a>		
			<a href="#">targeted-sentiment-detection-job</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">topics-detection-job</a>		
<a href="#">ListTargetedSentimentDetectionJobs</a>	Grants permission to get a list of targeted sentiment detection jobs that you have submitted	Read			
<a href="#">ListTopicsDetectionJobs</a>	Grants permission to get a list of the topic detection jobs that you have submitted	Read			
<a href="#">PutResourcePolicy</a>	Grants permission to attach policy to resource	Write	<a href="#">document-classifier*</a>		
			<a href="#">entity-recognizer*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDocumentClassificationJob</a>	Grants permission to start an asynchronous document classification job	Write	<a href="#">document-classification-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">comprehend:VolumeKeys</a>  <a href="#">comprehend:OutputKeys</a>  <a href="#">comprehend:VpcSecurityGroupIds</a>  <a href="#">comprehend:VpcSubnets</a>	
<a href="#">StartDominantLanguageDetectionJob</a>	Grants permission to start an asynchronous dominant language detection job for a collection of documents	Write	<a href="#">document-classifier</a>  <a href="#">flywheel</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:OutputKeys</a> <a href="#">comprehend:VpcSecurityGroupIds</a> <a href="#">comprehend:VpcSubnets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartEntitiesDetectionJob</a>	Grants permission to start an asynchronous entity detection job for a collection of documents	Write	<a href="#">entities-detection-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">comprehend:VolumeKeys</a>  <a href="#">comprehend:OutputKeys</a>  <a href="#">comprehend:VpcSecurityGroupIds</a>  <a href="#">comprehend:VpcSubnets</a>	
<a href="#">StartEventsDetectionJob</a>	Grants permission to start an asynchronous Events detection job for a collection of documents	Write	<a href="#">events-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:OutputKmsKey</a>	
<a href="#">StartFlywheelIteration</a>	Grants permission to start a flywheel iteration for a flywheel	Write	<a href="#">flywheel*</a>		
<a href="#">StartKeyPhrasesDetectionJob</a>	Grants permission to start an asynchronous key phrase detection job for a collection of documents	Write	<a href="#">key-phrases-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">comprehend:VolumeKeys</a>  <a href="#">comprehend:OutputKeys</a>  <a href="#">comprehend:VpcSecurityGroups</a>  <a href="#">comprehend:VpcSubnets</a>	
<a href="#">StartPiiEntitiesDetectionJob</a>	Grants permission to start an asynchronous PII entities detection job for a collection of documents	Write	<a href="#">pii-entities-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:OutputKeys</a>	
<a href="#">StartSentimentDetectionJob</a>	Grants permission to start an asynchronous sentiment detection job for a collection of documents	Write	<a href="#">sentiment-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:OutputKeys</a> <a href="#">comprehend:VpcSecurityGroups</a> <a href="#">comprehend:VpcSubnets</a>	
<a href="#">StartTargetedSentimentDetectionJob</a>	Grants permission to start an asynchronous targeted sentiment detection job for a collection of documents	Write	<a href="#">targeted-sentiment-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:OutputKeys</a> <a href="#">comprehend:VpcSecurityGroupIds</a> <a href="#">comprehend:VpcSubnets</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTopicsDetectionJob</a>	Grants permission to start an asynchronous job to detect the most common topics in the collection of documents and the phrases associated with each topic	Write	<a href="#">topics-detection-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">comprehend:VolumeKeys</a> <a href="#">comprehend:OutputKeys</a> <a href="#">comprehend:VpcSecurityGroupIds</a> <a href="#">comprehend:VpcSubnets</a>	
<a href="#">StopDominantLanguageDetectionJob</a>	Grants permission to stop a dominant language detection job	Write	<a href="#">dominant-language-detection-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopEntitiesDetectionJob</a>	Grants permission to stop an entity detection job	Write	<a href="#">entities-detection-job*</a>		
<a href="#">StopEventsDetectionJob</a>	Grants permission to stop an Events detection job	Write	<a href="#">events-detection-job*</a>		
<a href="#">StopKeyPhrasesDetectionJob</a>	Grants permission to stop a key phrase detection job	Write	<a href="#">key-phrases-detection-job*</a>		
<a href="#">StopPiiEntitiesDetectionJob</a>	Grants permission to stop a PII entities detection job	Write	<a href="#">pii-entities-detection-job*</a>		
<a href="#">StopSentimentDetectionJob</a>	Grants permission to stop a sentiment detection job	Write	<a href="#">sentiment-detection-job*</a>		
<a href="#">StopTargetedSentimentDetectionJob</a>	Grants permission to stop a targeted sentiment detection job	Write	<a href="#">targeted-sentiment-detection-job*</a>		
<a href="#">StopTrainingDocumentClassifier</a>	Grants permission to stop a previously created document classifier training job	Write	<a href="#">document-classifier*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopTrainingEntityRecognizer</a>	Grants permission to stop a previously created entity recognizer training job	Write	<a href="#">entity-recognizer*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">document-classification-job</a>		
			<a href="#">document-classifier</a>		
			<a href="#">document-classifier-endpoint</a>		
			<a href="#">dominant-language-detection-job</a>		
			<a href="#">entities-detection-job</a>		
			<a href="#">entity-recognizer</a>		
			<a href="#">entity-recognizer-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">events-detection-job</a>		
			<a href="#">flywheel</a>		
			<a href="#">flywheel-dataset</a>		
			<a href="#">key-phrases-detection-job</a>		
			<a href="#">pii-entities-detection-job</a>		
			<a href="#">sentiment-detection-job</a>		
			<a href="#">targeted-sentiment-detection-job</a>		
			<a href="#">topics-detection-job</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource with given key	Tagging	<a href="#">document-classification-job</a>  <a href="#">document-classifier</a>  <a href="#">document-classifier-endpoint</a>  <a href="#">dominant-language-detection-job</a>  <a href="#">entities-detection-job</a>  <a href="#">entity-recognizer</a>  <a href="#">entity-recognizer-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">events-detection-job</a>		
			<a href="#">flywheel</a>		
			<a href="#">flywheel-dataset</a>		
			<a href="#">key-phrases-detection-job</a>		
			<a href="#">pii-entities-detection-job</a>		
			<a href="#">sentiment-detection-job</a>		
			<a href="#">targeted-sentiment-detection-job</a>		
			<a href="#">topics-detection-job</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEndpoint</a>	Grants permission to update information about the specified endpoint	Write	<a href="#">document-classifier-endpoint*</a>		
			<a href="#">entity-recognizer-endpoint*</a>		
			<a href="#">flywheel</a>		
<a href="#">UpdateFlywheel</a>	Grants permission to Update a flywheel's configuration	Write	<a href="#">flywheel*</a>	<a href="#">comprehend:VolumeKeysKey</a>	
			<a href="#">comprehend:ModelKeysKey</a>		
			<a href="#">comprehend:VpcSecurityGroupIds</a>		
			<a href="#">comprehend:VpcSubnets</a>		
			<a href="#">document-classifier</a>		
<a href="#">entity-recognizer</a>					

## Resource types defined by Amazon Comprehend

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">targeted-sentiment-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:targeted-sentiment-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">document-classifier</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:document-classifier/\${DocumentClassifierName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">document-classifier-endpoint</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:document-classifier-endpoint/\${DocumentClassifierEndpointName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">entity-recognizer</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:entity-recognizer/\${EntityRecognizerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">entity-recognizer-endpoint</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:entity-recognizer-endpoint/\${EntityRecognizerEndpointName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dominant-language-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:dominant-language-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">entities-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:entities-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">pii-entities-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:pii-entities-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">events-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:events-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">key-phrases-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:key-phrases-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sentiment-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:sentiment-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">topics-detection-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:topics-detection-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">document-classification-job</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:document-classification-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">flywheel</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:flywheel/\${FlywheelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">flywheel-dataset</a>	arn:\${Partition}:comprehend:\${Region}:\${Account}:flywheel/\${FlywheelName}/dataset/\${DatasetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Comprehend

Amazon Comprehend defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by requiring tag values present in a resource creation request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by requiring tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by requiring the presence of mandatory tags in the request	ArrayOfString
<a href="#">comprehend:DataLakeKmsKey</a>	Filters access by the DataLake Kms Key associated with the flywheel resource in the request	ARN
<a href="#">comprehend:FlywheelIterationId</a>	Filters access by particular Iteration Id for a flywheel	String
<a href="#">comprehend:ModelKmsKey</a>	Filters access by the model KMS key associated with the resource in the request	ARN
<a href="#">comprehend:OutputKmsKey</a>	Filters access by the output KMS key associated with the resource in the request	ARN
<a href="#">comprehend:VolumeKmsKey</a>	Filters access by the volume KMS key associated with the resource in the request	ARN

Condition keys	Description	Type
<a href="#">comprehend:VpcSecurityGroupIds</a>	Filters access by the list of all VPC security group ids associated with the resource in the request	ArrayOfString
<a href="#">comprehend:VpcSubnets</a>	Filters access by the list of all VPC subnets associated with the resource in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Comprehend Medical

Amazon Comprehend Medical (service prefix: `comprehendmedical`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Comprehend Medical](#)
- [Resource types defined by Amazon Comprehend Medical](#)
- [Condition keys for Amazon Comprehend Medical](#)

## Actions defined by Amazon Comprehend Medical

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEntitiesDetectionV2Job</a>	Grants permission to describe the properties of a medical entity detection job that you have submitted	Read			
<a href="#">DescribeICD10CMInferenceJob</a>	Grants permission to describe the properties of an ICD-10-CM linking job that you have submitted	Read			
<a href="#">DescribePHIDetectionJob</a>	Grants permission to describe the properties of a PHI entity detection job that you have submitted	Read			
<a href="#">DescribeRxNormInferenceJob</a>	Grants permission to describe the properties of an RxNorm linking job that you have submitted	Read			
<a href="#">DescribeSNOMEDCTInferenceJob</a>	Grants permission to describe the properties of a SNOMED-CT linking job that you have submitted	Read			
<a href="#">DetectEntitiesV2</a>	Grants permission to detect the named medical entities, and their relationships and traits within the given text document	Read			
<a href="#">DetectPHI</a>	Grants permission to detect the protected health	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	information (PHI) entities within the given text document				
<a href="#">InferICD10CM</a>	Grants permission to detect the medical condition entities within the given text document and link them to ICD-10-CM codes	Read			
<a href="#">InferRxNorm</a>	Grants permission to detect the medication entities within the given text document and link them to RxCUI concept identifiers from the National Library of Medicine RxNorm database	Read			
<a href="#">InferSNOMEDCT</a>	Grants permission to detect the medical condition, anatomy, and test, treatment, and procedure entities within the given text document and link them to SNOMED-CT codes	Read			
<a href="#">ListEntitiesDetectionV2Jobs</a>	Grants permission to list the medical entity detection jobs that you have submitted	Read			
<a href="#">ListICD10CMInferenceJobs</a>	Grants permission to list the ICD-10-CM linking jobs that you have submitted	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPHIDetectionJobs</a>	Grants permission to list the PHI entity detection jobs that you have submitted	Read			
<a href="#">ListRxNormInferenceJobs</a>	Grants permission to list the RxNorm linking jobs that you have submitted	Read			
<a href="#">ListSNOMEDCTInferenceJobs</a>	Grants permission to list the SNOMED-CT linking jobs that you have submitted	Read			
<a href="#">StartEntitiesDetectionV2Job</a>	Grants permission to start an asynchronous medical entity detection job for a collection of documents	Write			
<a href="#">StartICD10CMInferenceJob</a>	Grants permission to start an asynchronous ICD-10-CM linking job for a collection of documents	Write			
<a href="#">StartPHIDetectionJob</a>	Grants permission to start an asynchronous PHI entity detection job for a collection of documents	Write			
<a href="#">StartRxNormInferenceJob</a>	Grants permission to start an asynchronous RxNorm linking job for a collection of documents	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartSNOMEDCTInferenceJob</a>	Grants permission to start an asynchronous SNOMED-CT linking job for a collection of documents	Write			
<a href="#">StopEntitiesDetectionV2Job</a>	Grants permission to stop a medical entity detection job	Write			
<a href="#">StopICD10CMInferenceJob</a>	Grants permission to stop an ICD-10-CM linking job	Write			
<a href="#">StopPHIDetectionJob</a>	Grants permission to stop a PHI entity detection job	Write			
<a href="#">StopRxNormInferenceJob</a>	Grants permission to stop an RxNorm linking job	Write			
<a href="#">StopSNOMEDCTInferenceJob</a>	Grants permission to stop a SNOMED-CT linking job	Write			

## Resource types defined by Amazon Comprehend Medical

Amazon Comprehend Medical does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Comprehend Medical, specify "Resource": "\*" in your policy.



## Condition keys for Amazon Comprehend Medical

Amazon Comprehend Medical defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Compute Optimizer

AWS Compute Optimizer (service prefix: `compute-optimizer`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Compute Optimizer](#)
- [Resource types defined by AWS Compute Optimizer](#)
- [Condition keys for AWS Compute Optimizer](#)

## Actions defined by AWS Compute Optimizer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRecommendationPreferences</a>	Grants permission to delete recommendation preferences	Write		<a href="#">compute-optimizer:ResourceType</a>	autoscaling:DescribeAutoScalingGroups ec2:DescribeInstances rds:DescribeDBClusters rds:DescribeDBInstances
<a href="#">DescribeRecommendationExportJobs</a>	Grants permission to view the status of recommendation export jobs	List			
<a href="#">ExportAutoScalingGroupRecommendations</a>	Grants permission to export AutoScaling group recommendations to S3 for the provided accounts	Write			autoscaling:DescribeAutoScalingGroups compute-optimizer:GetAutoSc

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					alignGroupRecommendations
<a href="#">ExportEBSVolumeRecommendations</a>	Grants permission to export EBS volume recommendations to S3 for the provided accounts	Write			compute-optimizer: GetEBSVolumeRecommendations  ec2:DescribeVolumes
<a href="#">ExportEC2InstanceRecommendations</a>	Grants permission to export EC2 instance recommendations to S3 for the provided accounts	Write			compute-optimizer: GetEC2InstanceRecommendations  ec2:DescribeInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportECS ServiceRecommendations</a>	Grants permission to export ECS service recommendations to S3 for the provided accounts	Write			compute-optimizer: GetECSServiceRecommendations ecs:ListClusters ecs:ListServices
<a href="#">ExportIdleRecommendations</a>	Grants permission to export idle recommendations to S3 for the provided accounts	Write			compute-optimizer: GetIdleRecommendations

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportLambdaFunctionRecommendations</a>	Grants permission to export Lambda function recommendations to S3 for the provided accounts	Write			compute-optimizer: GetLambdaFunctionRecommendations  lambda:ListFunctions  lambda:ListProvisionedConcurrencyConfigs
<a href="#">ExportLicenseRecommendations</a>	Grants permission to export license recommendations to S3 for the provided account(s)	Write			compute-optimizer: GetLicenseRecommendations  ec2:DescribeInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportRDS Database Recommendations</a>	Grants permission to export rds recommendations to S3 for the provided accounts	Write			compute-optimizer: GetRDSDatabaseRecommendations rds:DescribeDBClusters rds:DescribeDBInstances
<a href="#">GetAutoScalingGroupRecommendations</a>	Grants permission to get recommendations for the provided AutoScaling groups	List			autoscaling:DescribeAutoScalingGroups
<a href="#">GetEBSVolumeRecommendations</a>	Grants permission to get recommendations for the provided EBS volumes	List			ec2:DescribeVolumes
<a href="#">GetEC2InstanceRecommendations</a>	Grants permission to get recommendations for the provided EC2 instances	List			ec2:DescribeInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEC2RecommendationProjectedMetrics</a>	Grants permission to get the recommendation projected metrics of the specified instance	List			ec2:DescribeInstances
<a href="#">GetECSServiceRecommendationProjectedMetrics</a>	Grants permission to get the recommendation projected metrics of the specified ECS service	List			
<a href="#">GetECSServiceRecommendations</a>	Grants permission to get recommendations for the provided ECS services	List			ecs:ListClusters ecs:ListServices



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEffectiveRecommendationPreferences</a>	Grants permission to get recommendation preferences that are in effect	Read		<a href="#">compute-optimizer:ResourceType</a>	autoscaling:DescribeAutoScalingGroups  autoscaling:DescribeAutoScalingInstances  ec2:DescribeInstances  rds:DescribeDBClusters  rds:DescribeDBInstances
<a href="#">GetEnrollmentStatus</a>	Grants permission to get the enrollment status for the specified account	List			
<a href="#">GetEnrollmentStatusesForOrganization</a>	Grants permission to get the enrollment statuses for member accounts of the organization	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdleRecommendations</a>	Grants permission to get idle recommendations for the specified account(s)	List			
<a href="#">GetLambdaFunctionRecommendations</a>	Grants permission to get recommendations for the provided Lambda functions	List			lambda:ListFunctions  lambda:ListProvisionedConcurrencyConfigs
<a href="#">GetLicenseRecommendations</a>	Grants permission to get license recommendations for the specified account(s)	List			ec2:DescribeInstances
<a href="#">GetRDSDatabaseRecommendationProjectedMetrics</a>	Grants permission to get the recommendation projected metrics of the specified instance	List			rds:DescribeDBClusters  rds:DescribeDBInstances
<a href="#">GetRDSDatabaseRecommendations</a>	Grants permission to get rds recommendations for the specified account(s)	List			rds:DescribeDBClusters  rds:DescribeDBInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRecommendationPreferences</a>	Grants permission to get recommendation preferences	Read		<a href="#">compute-optimizer:ResourceType</a>	
<a href="#">GetRecommendationSummaries</a>	Grants permission to get the recommendation summaries for the specified account(s)	List			
<a href="#">PutRecommendationPreferences</a>	Grants permission to put recommendation preferences	Write		<a href="#">compute-optimizer:ResourceType</a>	<p>autoscaling:DescribeAutoScalingGroups</p> <p>autoscaling:DescribeAutoScalingInstances</p> <p>ec2:DescribeInstances</p> <p>rds:DescribeDBClusters</p> <p>rds:DescribeDBInstances</p>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnrollmentStatus</a>	Grants permission to update the enrollment status	Write			

## Resource types defined by AWS Compute Optimizer

AWS Compute Optimizer does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Compute Optimizer, specify "Resource": "\*" in your policy.

## Condition keys for AWS Compute Optimizer

AWS Compute Optimizer defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">compute-optimizer:ResourceType</a>	Filters access by the resource type	String

## Actions, resources, and condition keys for AWS Compute Optimizer Automation

AWS Compute Optimizer Automation (service prefix: aco-automation) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Compute Optimizer Automation](#)
- [Resource types defined by AWS Compute Optimizer Automation](#)
- [Condition keys for AWS Compute Optimizer Automation](#)

## Actions defined by AWS Compute Optimizer Automation

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Accounts</a>	Grants permission to associate member accounts with the management account	Write			
<a href="#">CreateAutomationRule</a>	Grants permission to create automation rule	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAutomationRule</a>	Grants permission to delete automation rule	Write	<a href="#">AutomationRule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateAccounts</a>	Grants permission to disassociate member accounts from the management account	Write			
<a href="#">GetAutomationEvent</a>	Grants permission to get automation event details	Read			
<a href="#">GetAutomationRule</a>	Grants permission to get automation rule	Read	<a href="#">AutomationRule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEnrollmentConfiguration</a>	Grants permission to get enrollment configuration	Read			
<a href="#">ListAccounts</a>	Grants permission to list the accounts in your organization that are enrolled in Compute Optimizer and whether they have enabled the Automation feature	List			
<a href="#">ListAutomationEventSteps</a>	Grants permission to list automation event steps	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAutomationEventSummaries</a>	Grants permission to list automation event summaries	List			
<a href="#">ListAutomationEvents</a>	Grants permission to list automation events	List			
<a href="#">ListAutomationRulePreview</a>	Grants permission to list automation rule preview results	List			ec2:DescribeVolumes
<a href="#">ListAutomationRulePreviewSummaries</a>	Grants permission to list automation rule preview summaries	List			
<a href="#">ListAutomationRules</a>	Grants permission to list automation rules	List			
<a href="#">ListRecommendedActionSummaries</a>	Grants permission to list recommended action summaries	List			
<a href="#">ListRecommendedActions</a>	Grants permission to list recommended actions	List			ec2:DescribeVolumes
<a href="#">ListTagsForResource</a>	Grants permission to list tags for automation rule	List	<a href="#">AutomationRule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RollbackAutomationEvent</a>	Grants permission to initiate a rollback for an automation event	Write			
<a href="#">StartAutomationEvent</a>	Grants permission to initiate an on-demand automation for a recommended action	Write			
<a href="#">TagResource</a>	Grants permission to add tags to automation rule	Tagging	<a href="#">AutomationRule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from automation rule	Tagging	<a href="#">AutomationRule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAutomationRule</a>	Grants permission to update automation rule	Write	<a href="#">AutomationRule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnrollmentConfiguration</a>	Grants permission to update enrollment configuration for the Compute Optimizer automation feature	Write			

## Resource types defined by AWS Compute Optimizer Automation

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AutomationRule</a>	arn:\${Partition}:compute-optimizer::\${Account}:automation-rule/\${RuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Compute Optimizer Automation

AWS Compute Optimizer Automation defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Config

AWS Config (service prefix: `config`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Config](#)
- [Resource types defined by AWS Config](#)
- [Condition keys for AWS Config](#)

## Actions defined by AWS Config

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateResourceTypes</a>	Grants permission to add all specified resource types to the RecordingGroup of configuration recorder and includes those resource types when recording	Write	<a href="#">ConfigurationRecorder*</a>		
<a href="#">BatchGetAggregateResourceConfig</a>	Grants permission to return the current configuration items for resources that are present in your AWS Config aggregator	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">BatchGetResourceConfig</a>	Grants permission to return the current configuration for one or more requested resources	Read			
<a href="#">DeleteAggregationAuthorization</a>	Grants permission to delete the authorization granted to the specified configuration aggregator account in a specified region	Write	<a href="#">AggregationAuthorization*</a>		
<a href="#">DeleteConfigRule</a>	Grants permission to delete the specified AWS Config rule and all of its evaluation results	Write	<a href="#">ConfigRule*</a>		
<a href="#">DeleteConfigurationAggregator</a>	Grants permission to delete the specified configuration aggregator and the aggregate	Write	<a href="#">ConfigurationAggregator*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	d data associated with the aggregator				
<a href="#">DeleteConfigurationRecorder</a>	Grants permission to delete the customer managed configuration recorder	Write	<a href="#">ConfigurationRecorder*</a>		
<a href="#">DeleteConformancePack</a>	Grants permission to delete the specified conformance pack and all the AWS Config rules and all evaluation results within that conformance pack	Write	<a href="#">ConformancePack*</a>		
<a href="#">DeleteDeliveryChannel</a>	Grants permission to delete the delivery channel	Write			
<a href="#">DeleteEvaluationResults</a>	Grants permission to delete the evaluation results for the specified Config rule	Write	<a href="#">ConfigRule*</a>		
<a href="#">DeleteOrganizationConfigRule</a>	Grants permission to delete the specified organization config rule and all of its evaluation results from all member accounts in that organization	Write	<a href="#">OrganizationConfigRule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOrganizationConformancePack</a>	Grants permission to delete the specified organization conformance pack and all of its evaluation results from all member accounts in that organization	Write	<a href="#">OrganizationConformancePack</a> *		
<a href="#">DeletePendingAggregationRequest</a>	Grants permission to delete pending authorization requests for a specified aggregator account in a specified region	Write			
<a href="#">DeleteRemediationConfiguration</a>	Grants permission to delete the remediation configuration	Write	<a href="#">RemediationConfiguration</a> *		
<a href="#">DeleteRemediationExceptions</a>	Grants permission to delete one or more remediation exceptions for specific resource keys for a specific AWS Config Rule	Write			
<a href="#">DeleteResourceConfig</a>	Grants permission to record the configuration state for a custom resource that has been deleted	Write			
<a href="#">DeleteRetentionConfiguration</a>	Grants permission to delete the retention configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteServiceLinkedConfigurationRecorder</a>	Grants permission to delete the service-linked configuration recorder	Write	<a href="#">ConfigurationRecorder*</a>	<a href="#">config:ConfigurationRecorderServicePrincipal</a>	
<a href="#">DeleteStoredQuery</a>	Grants permission to delete the stored query for an AWS account in an AWS Region	Write	<a href="#">StoredQuery*</a>		
<a href="#">DeliverConfigurationSnapshot</a>	Grants permission to schedule delivery of a configuration snapshot to the Amazon S3 bucket in the specified delivery channel	Read			
<a href="#">DescribeAggregateComplianceByConfigRules</a>	Grants permission to return a list of compliant and noncompliant rules with the number of resources for compliant and noncompliant rules	Read	<a href="#">ConfigurationAggregator*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAggregateComplianceByConformancePacks</a>	Grants permission to return a list of compliant and noncompliant conformance packs along with count of compliant, non-compliant and total rules within each conformance pack	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">DescribeAggregateAuthorizations</a>	Grants permission to return a list of authorizations granted to various aggregator accounts and regions	List			
<a href="#">DescribeComplianceByConfigRule</a>	Grants permission to indicate whether the specified AWS Config rules are compliant	Read			
<a href="#">DescribeComplianceByResource</a>	Grants permission to indicate whether the specified AWS resources are compliant	Read			
<a href="#">DescribeConfigRuleEvaluationStatus</a>	Grants permission to return status information for each of your AWS managed Config rules	Read			
<a href="#">DescribeConfigRules</a>	Grants permission to return details about your AWS Config rules	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeConfigurationAggregatorSourcesStatus</a>	Grants permission to return status information for sources within an aggregator	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">DescribeConfigurationAggregators</a>	Grants permission to return the details of one or more configuration aggregators	List			
<a href="#">DescribeConfigurationRecorderStatus</a>	Grants permission to return the current status of the specified configuration recorder	Read	<a href="#">ConfigurationRecorder*</a>	<a href="#">config:ConfigurationRecorderServicePrincipal</a>	
<a href="#">DescribeConfigurationRecorders</a>	Grants permission to return the names of one or more specified configuration recorders	Read	<a href="#">ConfigurationRecorder*</a>	<a href="#">config:ConfigurationRecorderServicePrincipal</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeConformancePacks</a>	Grants permission to return compliance information for each rule in that conformance pack	Read	<a href="#">ConformancePack*</a>		
<a href="#">DescribeConformancePackStatus</a>	Grants permission to provide one or more conformance packs deployment status	Read			
<a href="#">DescribeConformancePacks</a>	Grants permission to return a list of one or more conformance packs	List			
<a href="#">DescribeDeliveryChannelStatus</a>	Grants permission to return the current status of the specified delivery channel	Read			
<a href="#">DescribeDeliveryChannels</a>	Grants permission to return details about the specified delivery channel	List			
<a href="#">DescribeOrganizationConfigRuleStatuses</a>	Grants permission to provide organization config rule deployment status for an organization	Read			
<a href="#">DescribeOrganizationConfigRules</a>	Grants permission to return a list of organization config rules	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeOrganizationConformancePackStatuses</a>	Grants permission to provide organization conformance pack deployment status for an organization	Read			
<a href="#">DescribeOrganizationConformancePacks</a>	Grants permission to return a list of organization conformance packs	List			
<a href="#">DescribePendingAggregationRequests</a>	Grants permission to return a list of all pending aggregation requests	List			
<a href="#">DescribeRemediationConfigurations</a>	Grants permission to return the details of one or more remediation configurations	List	<a href="#">RemediationConfiguration*</a>		
<a href="#">DescribeRemediationExceptions</a>	Grants permission to return the details of one or more remediation exceptions	List			
<a href="#">DescribeRemediationExecutionStatus</a>	Grants permission to provide a detailed view of a Remediation Execution for a set of resources including state, timestamps and any error messages for steps that have failed	Read	<a href="#">RemediationConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRetentionConfigurations</a>	Grants permission to return the details of one or more retention configurations	List			
<a href="#">DisassociateResourceTypes</a>	Grants permission to remove all specified resource types from the RecordingGroup of configuration recorder and excludes these resource types when recording	Write	<a href="#">ConfigurationRecorder*</a>		
<a href="#">GetAggregateComplianceDetailsByConfigRule</a>	Grants permission to return the evaluation results for the specified AWS Config rule for a specific resource in a rule	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">GetAggregateConfigRuleComplianceSummary</a>	Grants permission to return the number of compliant and noncompliant rules for one or more accounts and regions in an aggregator	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">GetAggregateConformancePackComplianceSummary</a>	Grants permission to return the number of compliant and noncompliant conformance packs for one or more accounts and regions in an aggregator	Read	<a href="#">ConfigurationAggregator*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAggregateDiscoveredResourceCounts</a>	Grants permission to return the resource counts across accounts and regions that are present in your AWS Config aggregator	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">GetAggregateResourceConfig</a>	Grants permission to return configuration item that is aggregated for your specific resource in a specific source account and region	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">GetComplianceDetailsByConfigRule</a>	Grants permission to return the evaluation results for the specified AWS Config rule	Read	<a href="#">ConfigRule*</a>		
<a href="#">GetComplianceDetailsByResource</a>	Grants permission to return the evaluation results for the specified AWS resource	Read			
<a href="#">GetComplianceSummaryByConfigRule</a>	Grants permission to return the number of AWS Config rules that are compliant and noncompliant, up to a maximum of 25 for each	Read			
<a href="#">GetComplianceSummaryByResourceType</a>	Grants permission to return the number of resources that are compliant and the number that are noncompliant	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConformancePackComplianceDetails</a>	Grants permission to return compliance details of a conformance pack for all AWS resources that are monitored by conformance pack	Read	<a href="#">ConformancePack*</a>		
<a href="#">GetConformancePackComplianceSummary</a>	Grants permission to provide compliance summary for one or more conformance packs	Read	<a href="#">ConformancePack*</a>		
<a href="#">GetCustomRulePolicy</a>	Grants permission to return the policy definition containing the logic for your AWS Config Custom Policy rule	Read	<a href="#">ConfigRule*</a>		
<a href="#">GetDiscoveredResourceCounts</a>	Grants permission to return the resource types, the number of each resource type, and the total number of resources that AWS Config is recording in this region for your AWS account	Read			
<a href="#">GetOrganizationConfigRuleDetailedStatus</a>	Grants permission to return detailed status for each member account within an organization for a given organization config rule	Read	<a href="#">OrganizationConfigRule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOrganizationConformancePackDetailedStatus</a>	Grants permission to return detailed status for each member account within an organization for a given organization conformance pack	Read	<a href="#">OrganizationConformancePack*</a>		
<a href="#">GetOrganizationCustomRulePolicy</a>	Grants permission to return the policy definition containing the logic for your organization AWS Config Custom Policy rule	Read	<a href="#">OrganizationConfigRule*</a>		
<a href="#">GetResourceConfigHistory</a>	Grants permission to return a list of configuration items for the specified resource	Read			
<a href="#">GetResourceEvaluationSummary</a>	Grants permission to return the summary of resource evaluations for a specific resource evaluation ID	Read			
<a href="#">GetStoredQuery</a>	Grants permission to return the details of a specific stored query	Read	<a href="#">StoredQuery*</a>		
<a href="#">ListAggregatedResources</a>	Grants permission to accept a resource type and returns a list of resource identifiers that are aggregated for a specific resource type across accounts and regions	List	<a href="#">ConfigurationAggregator*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConfigurationRecorders</a>	Grants permission to list the configuration recorder summaries for an AWS account in an AWS Region	List			
<a href="#">ListConformancePackComplianceScores</a>	Grants permission to return the percentage of compliant rule-resource combinations in a conformance pack compared to the number of total possible rule-resource combinations	List			
<a href="#">ListDiscoveredResources</a>	Grants permission to accept a resource type and returns a list of resource identifiers for the resources of that type	List			
<a href="#">ListResourceEvaluations</a>	Grants permission to list the resource evaluation summaries for an AWS account in an AWS Region	List			
<a href="#">ListStoredQueries</a>	Grants permission to list the stored queries for an AWS account in an AWS Region	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for AWS Config resource	Read	<a href="#">AggregationAuthorization</a> <a href="#">ConfigRule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ConfigurationAggregator</a>		
			<a href="#">ConfigurationRecorder</a>		
			<a href="#">ConformancePack</a>		
			<a href="#">OrganizationConfigRule</a>		
			<a href="#">OrganizationConformancePack</a>		
			<a href="#">StoredQuery</a>		
<a href="#">PutAggregationAuthorization</a>	Grants permission to authorize the aggregator account and region to collect data from the source account and region	Write	<a href="#">AggregationAuthorization*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutConfigRule</a>	Grants permission to add or update an AWS Config rule for evaluating whether your AWS resources comply with your desired configurations	Write	<a href="#">ConfigRule*</a>		
<a href="#">PutConfigurationAggregator</a>	Grants permission to create and update the configuration aggregator with the selected source accounts and regions	Write	<a href="#">ConfigurationAggregator*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  organizations:EnableAWSServiceAccess  organizations:ListDelegatedAdministrators
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutConfigurationRecorder</a>	Grants permission to create or update a customer managed configuration recorder to record the selected resource configurations	Write	<a href="#">ConfigurationRecorder*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">PutConformancePack</a>	Grants permission to create or update a conformance pack	Write	<a href="#">ConformancePack*</a>		iam:CreateServiceLinkedRole iam:PassRole s3:GetObject s3:ListBucket ssm:GetDocument
<a href="#">PutDeliveryChannel</a>	Grants permission to create a delivery channel object to deliver configuration information to an Amazon S3 bucket and Amazon SNS topic	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutEvaluations</a>	Grants permission to be used by an AWS Lambda function to deliver evaluation results to AWS Config	Write			
<a href="#">PutExternalEvaluation</a>	Grants permission to deliver evaluation result to AWS Config	Write	<a href="#">ConfigRule*</a>		
<a href="#">PutOrganizationConfigRule</a>	Grants permission to add or update organization config rule for your entire organization evaluating whether your AWS resources comply with your desired configurations	Write	<a href="#">OrganizationConfigRule*</a>		iam:CreateServiceLinkedRole  iam:PassRole  organizations:EnableAWSServiceAccess  organizations:ListDelegatedAdministrators

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutOrganizationConformancePack</a>	Grants permission to add or update organization conformance pack for your entire organization evaluating whether your AWS resources comply with your desired configurations	Write	<a href="#">OrganizationConformancePack*</a>		iam:CreateServiceLinkedRole  iam:PassRole  organizations:EnableAWSServiceAccess  organizations:ListDelegatedAdministrators  s3:GetObject
<a href="#">PutRemediationConfigurations</a>	Grants permission to add or update the remediation configuration with a specific AWS Config rule with the selected target or action	Write	<a href="#">RemediationConfiguration*</a>		iam:PassRole
<a href="#">PutRemediationExceptions</a>	Grants permission to add or update remediation exceptions for specific resources for a specific AWS Config rule	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourceConfig</a>	Grants permission to record the configuration state for the resource provided in the request	Write			
<a href="#">PutRetentionConfiguration</a>	Grants permission to create and update the retention configuration with details about retention period (number of days) that AWS Config stores your historical information	Write			
<a href="#">PutServiceLinkedConfigurationRecorder</a>	Grants permission to create a new service-linked configuration recorder to record the resource configurations in scope for the linked service	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">config:ConfigurationRecorderServicePrincipal</a>	iam:CreateServiceLinkedRole iam:PassRole
<a href="#">PutStoredQuery</a>	Grants permission to save a new query or updates an existing saved query	Write	<a href="#">StoredQuery*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">SelectAggregateResourceConfig</a>	Grants permission to accept a structured query language (SQL) SELECT command and an aggregator to query configuration state of AWS resources across multiple accounts and regions, performs the corresponding search, and returns resource configurations matching the properties	Read	<a href="#">ConfigurationAggregator*</a>		
<a href="#">SelectResourceConfig</a>	Grants permission to accept a structured query language (SQL) SELECT command, performs the corresponding search, and returns resource configurations matching the properties	Read			
<a href="#">StartConfigRulesEvaluation</a>	Grants permission to evaluate your resources against the specified Config rules	Write	<a href="#">ConfigRule*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartConfigurationRecorder</a>	Grants permission to the customer managed configuration recorder to start recording configurations of the AWS resources you have selected to record in your AWS account	Write	<a href="#">ConfigurationRecorder*</a>		
<a href="#">StartRemediationExecution</a>	Grants permission to run an on-demand remediation for the specified AWS Config rules against the last known remediation configuration	Write			iam:PassRole
<a href="#">StartResourceEvaluation</a>	Grants permission to evaluate your resource details against the AWS Config rules in your account	Write			cloudformation:DescribeType
<a href="#">StopConfigurationRecorder</a>	Grants permission to the customer managed configuration recorder to stop recording configurations of the AWS resources you have selected to record in your AWS account	Write	<a href="#">ConfigurationRecorder*</a>		
<a href="#">TagResource</a>	Grants permission to associate the specified tags to a resource with the specified resourceArn	Tagging	<a href="#">AggregationAuthorization</a> <a href="#">ConfigRule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ConfigurationAggregator</a>		
			<a href="#">ConfigurationRecorder</a>		
			<a href="#">ConformancePack</a>		
			<a href="#">OrganizationConfigRule</a>		
			<a href="#">OrganizationConformancePack</a>		
			<a href="#">StoredQuery</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to delete specified tags from a resource	Tagging	<a href="#">AggregationAuthorization</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ConfigRule</a>		
			<a href="#">ConfigurationAggregator</a>		
			<a href="#">ConfigurationRecorder</a>		
			<a href="#">ConformancePack</a>		
			<a href="#">OrganizationConfigRule</a>		
			<a href="#">OrganizationConformancePack</a>		
			<a href="#">StoredQueue</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Config

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AggregationAuthorization</a>	arn:\${Partition}:config:\${Region}:\${Account}:aggregation-authorization/\${AggregatorAccount}/\${AggregatorRegion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ConfigurationAggregator</a>	arn:\${Partition}:config:\${Region}:\${Account}:config-aggregator/\${AggregatorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ConfigRule</a>	arn:\${Partition}:config:\${Region}:\${Account}:config-rule/\${ConfigRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ConformancePack</a>	arn:\${Partition}:config:\${Region}:\${Account}:conformance-pack/\${ConformancePackName}/\${ConformancePackId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">OrganizationConfigRule</a>	arn:\${Partition}:config:\${Region}:\${Account}:organization-config-rule/\${OrganizationConfigRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">OrganizationConformancePack</a>	arn:\${Partition}:config:\${Region}:\${Account}:organization-conformance-pack/\${OrganizationConformancePackId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RemediationConfiguration</a>	arn:\${Partition}:config:\${Region}:\${Account}:remediation-configuration/\${RemediationConfigurationId}	
<a href="#">StoredQuery</a>	arn:\${Partition}:config:\${Region}:\${Account}:stored-query/\${StoredQueryName}/\${StoredQueryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ConfigurationRecorder</a>	arn:\${Partition}:config:\${Region}:\${Account}:configuration-recorder/\${RecorderName}/\${RecorderId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Config

AWS Config defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString
<a href="#">config:ConfigurationRecorderServicePrincipal</a>	Filters access by service principal of the configuration recorder	String

## Actions, resources, and condition keys for Amazon Connect

Amazon Connect (service prefix: `connect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Connect](#)
- [Resource types defined by Amazon Connect](#)
- [Condition keys for Amazon Connect](#)

## Actions defined by Amazon Connect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateEvaluationForm</a>	Grants permission to activate an evaluation form in the specified Amazon Connect instance. After the evaluation form is activated, it is available to start new evaluations based on the form	Write	<a href="#">evaluation-form*</a>	<a href="#">connect:instanceId</a>	
<a href="#">AdminGetEmergencyAccessToken</a>	Grants permission to federate into an Amazon Connect instance (Log in for emergency access functiona	Write	<a href="#">instance*</a>		connect:DescribeInstance

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	lity in the Amazon Connect console)				connect:ListInstances  ds:DescribeDirectories
<a href="#">Associate Analytics DataSet</a>	Grants permission to grant access and to associate a dataset with the specified AWS account	Write	<a href="#">instance*</a>		
<a href="#">Associate ApprovedOrigin</a>	Grants permission to associate approved origin for an existing Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateBot</a>	Grants permission to associate a Lex bot for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		iam:AttachRolePolicy iam:CreateServiceLinkedRole iam:PutRolePolicy lex:CreateResourcePolicy lex:DescribeBotAlias lex:GetBot lex:UpdateResourcePolicy
				<a href="#">connect:instanceId</a>	
<a href="#">AssociateContactWithUser</a>	Grants permission to associate a contact with a user using the Amazon Connect API	Write	<a href="#">contact*</a>		
			<a href="#">instance*</a>		
			<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:PreferredUserArn</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">AssociateCustomerProfilesDomain</a> [permission only]	Grants permission to associate a Customer Profiles domain for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy  profile:GetDomain
<a href="#">AssociateDefaultVocabulary</a>	Grants permission to default vocabulary for an existing Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateEmailAddressAlias</a>	Grants permission to associate an alias with an email address resource in an Amazon Connect instance	Write	<a href="#">email-address*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">AssociateFlow</a>	Grants permission to associate a resource with a flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a> <a href="#">wildcard-phone-number*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate InstanceStorageConfig</a>	Grants permission to associate instance storage for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		ds:DescribeDirectories firehose:DescribeDeliveryStream iam:AttachRolePolicy iam:CreateServiceLinkedRole iam:PutRolePolicy kinesis:DescribeStream kms:CreateGrant kms:DescribeKey s3:GetBucketAcl

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:GetBucketLocation
				<a href="#">connect:StorageResourceType</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">Associate LambdaFunction</a>	Grants permission to associate a Lambda function for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		lambda:AddPermission
				<a href="#">connect:InstanceId</a>	
<a href="#">Associate LexBot</a>	Grants permission to associate a Lex bot for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		iam:AttachRolePolicy iam:CreateServiceLinkedRole iam:PutRolePolicy lex:GetBot
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociatePhoneNumberContactFlow</a>	Grants permission to associate contact flow resources to phone number resources in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>		
			<a href="#">phone-number*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">AssociateQueueEmailAddresses</a>	Grants permission to associate a set of email addresses with a queue	Write	<a href="#">queue*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">AssociateQueueQuickConnects</a>	Grants permission to associate quick connects with a queue in an Amazon Connect instance	Write	<a href="#">queue*</a>		
			<a href="#">quick-connect*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">Associate RoutingProfileQueues</a>	Grants permission to associate queues with a routing profile in an Amazon Connect instance	Write	<a href="#">queue*</a> <a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">Associate SecurityKey</a>	Grants permission to associate a security key for an existing Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">Associate SecurityProfiles</a>	Grants permission to associate security profiles with an AI agent in an Amazon Connect instance	Write	<a href="#">instance*</a> <a href="#">security-profile*</a> <a href="#">ai-agent</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">AssociateTrafficDistributionGroupUser</a>	Grants permission to associate a user to a traffic distribution group in the specified Amazon Connect instance	Write	<a href="#">instance*</a>		connect:DescribeUser  connect:SearchUsers
			<a href="#">traffic-distribution-group*</a>		
			<a href="#">user*</a>		
				<a href="#">connect:InstanceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:SearchTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate User Proficiencies</a>	Grants permission to associate user proficiencies to a user in an Amazon Connect instance	Write	<a href="#">instance*</a> <a href="#">user*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">Associate Workspace</a>	Grants permission to associate a workspace with a user or routing profile in an Amazon Connect instance	Write	<a href="#">workspace*</a> <a href="#">routing-profile</a> <a href="#">user</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">BatchAssociate AnalyticsDataSet</a>	Grants permission to grant access and to associate the datasets with the specified AWS account	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">BatchCreateDataTableValue</a>	Grants permission to batch create values in a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:ExpressionValue</a>  <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	
<a href="#">BatchDeleteDataTableValue</a>	Grants permission to batch delete values in a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	
<a href="#">BatchDescribeDataTableValue</a>	Grants permission to batch describe values in a data table in an Amazon Connect instance	Read	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDisassociateAnalyticsDataSet</a>	Grants permission to revoke access and to disassociate the datasets with the specified AWS account	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">BatchGetAttachedFileMetadata</a>	Grants permission to get metadata for multiple attached files from an Amazon Connect instance	Read	<a href="#">attached-file*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">BatchGetFlowAssociation</a>	Grants permission to get summary information about the flow associations for the specified Amazon Connect instance	List	<a href="#">wildcard-phone-number*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">BatchPutContact</a>	Grants permission to put contacts in an Amazon Connect instance	Write	<a href="#">instance*</a> <a href="#">queue</a>	<a href="#">connect:InstanceId</a>	
<a href="#">BatchUpdateDataTableValue</a>	Grants permission to batch update values in a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:ExpressionValue</a> <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	
<a href="#">ClaimPhoneNumber</a>	Grants permission to claim phone number resources in an Amazon Connect instance or traffic distribution group	Write	<a href="#">instance*</a> <a href="#">traffic-distribution-group*</a> <a href="#">wildcard-phone-number*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CompleteAttachedFileUpload</a>	Grants permission to complete an attached file upload in an Amazon Connect instance	Write	<a href="#">attached-file*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateAgentStatus</a>	Grants permission to create agent status in an Amazon Connect instance	Write	<a href="#">agent-status*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateAuthenticationProfile</a>	Grants permission to create authentication profile resources in an Amazon Connect instance	Write	<a href="#">authentication-profile*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">CreateContact</a>	Grants permission to create a new contact using the Amazon Connect API	Write	<a href="#">instance*</a>		
			<a href="#">contact</a>		
			<a href="#">user</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">CreateContactFlow</a>	Grants permission to create a contact flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>		
				<a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">CreateContactFlowModule</a>	Grants permission to create a contact flow module in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>	<a href="#">aws:TagKeys</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:FlowType</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateContactFlowModuleAlias</a>	Grants permission to create an alias of a flow module version in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateContactFlowModuleVersion</a>	Grants permission to create a version of a flow module in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateContactFlowVersion</a>	Grants permission to create a version a flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:FlowType</a>	
<a href="#">CreateDataTable</a>	Grants permission to create a dataTable in an Amazon Connect instance	Write	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateDataTableAttribute</a>	Grants permission to create an attribute for a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">CreateEmailAddress</a>	Grants permission to create an email address resource in an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	
<a href="#">CreateEvaluationForm</a>	Grants permission to create an evaluation form in the specified Amazon Connect instance. The form can be used to define questions related to agent performance, and create sections to organize such questions. Question and section identifiers cannot be duplicated within the same evaluation form	Write	<a href="#">evaluation-form*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHoursOfOperation</a>	Grants permission to create hours of operation in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateHoursOfOperationOverride</a>	Grants permission to create an hours of operation override in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a> <a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInstance</a>	Grants permission to create a new Amazon Connect instance	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ds:AuthorizeApplication ds:CheckAlias ds:CreateAlias ds:CreateDirectory ds:CreateIdentityPoolDirectory ds>DeleteDirectory ds:DescribeDirectories ds:UnauthorizeApplication iam:AttachRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:CreateServiceLinkedRole iam:PutRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIntegrationAssociation</a>	Grants permission to create an integration association with an Amazon Connect instance	Write	<a href="#">instance*</a>		app-integrations:CreateApplicationAssociation  app-integrations:CreateEventIntegrationAssociation  app-integrations:GetApplication  app-integrations:GetDataIntegration  app-integrations:ListDataIntegration



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					Associations  app-integrations:TagResource  cases:GetDomain  chime:AssociateVoiceConnectorConnect  chime:DisassociateVoiceConnectorConnect  chime:TagResource  chime:UntagResource  connect:DescribeInstance

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ds:DescribeDirectories
					events:PutRule
					events:PutTargets
					iam:AttachRolePolicy
					iam:CreateServiceLinkedRole
					iam:PutRolePolicy
					mobiletargeting:GetApp
					voiceid:DescribeDomain
					wisdom:GetAssistant

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					wisdom:GetKnowledgeBase  wisdom:TagResource
			<a href="#">integration*</a>	<a href="#">connect:InstanceId</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateNotification</a>	Grants permission to create a notification in an Amazon Connect instance	Write	<a href="#">instance*</a>  <a href="#">user</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateParticipant</a>	Grants permission to add a participant to an ongoing contact	Write	<a href="#">contact*</a>		
			<a href="#">instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreatePersistentContactAssociation</a>	Grants permission to create persistent contact associations for a contact	Write	<a href="#">contact*</a>		
			<a href="#">instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePredefinedAttribute</a>	Grants permission to create a predefined attribute in an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">CreatePrompt</a>	Grants permission to create a prompt in an Amazon Connect instance	Write	<a href="#">prompt*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	kms:Decrypt s3:GetObject s3:GetObjectAcl
<a href="#">CreatePushNotificationRegistration</a>	Grants permission to create a push notification registration for an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">CreateQueue</a>	Grants permission to create a queue in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">queue*</a>		
			<a href="#">contact-f</a> <a href="#">low</a>		
			<a href="#">phone-</a> <a href="#">number</a>		
			<a href="#">quick-</a> <a href="#">connect</a>		
				<a href="#">aws:Reque</a> <a href="#">stTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKe</a> <a href="#">ys</a>  <a href="#">connect:l</a> <a href="#">nstanceId</a>	
<a href="#">CreateQui</a> <a href="#">ckConnect</a>	Grants permission to create a quick connect in an Amazon Connect instance	Write	<a href="#">quick-</a> <a href="#">connect*</a>		
			<a href="#">contact-f</a> <a href="#">low</a>		
			<a href="#">queue</a>		
			<a href="#">user</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateRoutingProfile</a>	Grants permission to create a routing profile in an Amazon Connect instance	Write	<a href="#">queue*</a> <a href="#">routing-profile*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateRule</a>	Grants permission to create a rule in an Amazon Connect instance	Write	<a href="#">rule*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSecurityProfile</a>	Grants permission to create a security profile for the specified Amazon Connect instance	Write	<a href="#">security-profile*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateTaskTemplate</a>	Grants permission to create a task template in an Amazon Connect instance	Write	<a href="#">task-template*</a>		
<a href="#">CreateTrafficDistributionGroup</a>	Grants permission to create a traffic distribution group	Write	<a href="#">instance*</a> <a href="#">traffic-distribution-group*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateUseCase</a>	Grants permission to create a use case for an integration association	Write	<a href="#">instance*</a>  <a href="#">integration-association*</a>  <a href="#">use-case*</a>		connect:DescribeInstance  ds:DescribeDirectories

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateUser</a>	Grants permission to create a user for the specified Amazon Connect instance	Write	<a href="#">routing-profile*</a>  <a href="#">security-profile*</a>  <a href="#">user*</a>  <a href="#">hierarchy-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUserHierarchyGroup</a>	Grants permission to create a user hierarchy group in an Amazon Connect instance	Write	<a href="#">hierarchy-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	
<a href="#">CreateView</a>	Grants permission to create a view in an Amazon Connect instance	Write	<a href="#">customer-managed-view*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	
<a href="#">CreateViewVersion</a>	Grants permission to create a view version in an Amazon Connect instance	Write	<a href="#">customer-managed-view*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">CreateVocabulary</a>	Grants permission to create a vocabulary in an Amazon Connect instance	Write	<a href="#">vocabulary*</a>	<a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	
<a href="#">CreateWorkspace</a>	Grants permission to create a workspace in an Amazon Connect instance	Write	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	
<a href="#">CreateWorkspacePage</a>	Grants permission to create a workspace page in an Amazon Connect instance	Write	<a href="#">workspace*</a> <a href="#">aws-managed-view</a> <a href="#">customer-managed-view</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeactivateEvaluationForm</a>	Grants permission to deactivate an evaluation form in the specified Amazon Connect instance. After a form is deactivated, it is no longer available for users to start new evaluations based on the form	Write	<a href="#">evaluation-form*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DeleteAttachedFile</a>	Grants permission to delete an attached file from an Amazon Connect instance	Write	<a href="#">attached-file*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a>	cases:DeleteRelatedItem
<a href="#">DeleteContactEvaluation</a>	Grants permission to delete a contact evaluation in the specified Amazon Connect instance	Write	<a href="#">contact-evaluation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">DeleteContactFlow</a>	Grants permission to delete a contact flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>		
<a href="#">DeleteContactFlowModule</a>	Grants permission to delete a contact flow module in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteContactFlowModuleAlias</a>	Grants permission to delete an alias of a flow module version in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">DeleteContactFlowModuleVersion</a>	Grants permission to delete a version of a flow module in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">DeleteContactFlowVersion</a>	Grants permission to delete a version of a flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:FlowType</a>	
<a href="#">DeleteDataTable</a>	Grants permission to delete a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>		
<a href="#">DeleteDataTableAttribute</a>	Grants permission to delete an attribute of a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEmailAddress</a>	Grants permission to delete an email address resource in an Amazon Connect instance	Write	<a href="#">email-address*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteEvaluationForm</a>	Grants permission to delete an evaluation form in the specified Amazon Connect instance. If the version property is provided, only the specified version of the evaluation form is deleted	Write	<a href="#">evaluation-form*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteHoursOfOperation</a>	Grants permission to delete hours of operation in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteHoursOfOperationOverride</a>	Grants permission to delete an hours of operation override in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a> <a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DeleteInstance</a>	Grants permission to delete an Amazon Connect instance. When you remove an instance, the link to an existing AWS directory is also removed	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	ds:DeleteDirectory  ds:DescribeDirectories  ds:UnauthorizeApplication

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteIntegrationAssociation</a>	Grants permission to delete an integration association from an Amazon Connect instance. The association must not have any use cases associated with it	Write	<a href="#">instance*</a>		app-integrations:DeleteApplicationAssociation  app-integrations:DeleteEventIntegrationAssociation  app-integrations:UntagResource  connect:DescribeInstance  ds:DescribeDirectories  events>DeleteRule

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					events:ListTargetsByRule  events:RemoveTargets
			<a href="#">integration-association*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">DeleteNotification</a>	Grants permission to delete a notification in an Amazon Connect instance	Write	<a href="#">notification*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">DeletePredefinedAttribute</a>	Grants permission to delete a predefined attribute in an Amazon Connect instance	Write	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">DeletePrompt</a>	Grants permission to delete a prompt in an Amazon Connect instance	Write	<a href="#">prompt*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeletePushNotificationRegistration</a>	Grants permission to delete a push notification registration for an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DeleteQueue</a>	Grants permission to delete a queue in an Amazon Connect instance	Write	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteQuickConnect</a>	Grants permission to delete a quick connect in an Amazon Connect instance	Write	<a href="#">quick-connect*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRoutingProfile</a>	Grants permission to delete routing profiles in an Amazon Connect instance	Write	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteRule</a>	Grants permission to delete a rule in an Amazon Connect instance	Write	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteSecurityProfile</a>	Grants permission to delete a security profile in an Amazon Connect instance	Write	<a href="#">security-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTaskTemplate</a>	Grants permission to delete a task template in an Amazon Connect instance	Write	<a href="#">task-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteTrafficDistributionGroup</a>	Grants permission to delete a traffic distribution group	Write	<a href="#">traffic-distribution-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteUseCase</a>	Grants permission to delete a use case from an integration association	Write	<a href="#">instance*</a>  <a href="#">use-case*</a>	  <a href="#">connect:InstanceId</a>	connect:DescribeInstance  ds:DescribeDirectories



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteUser</a>	Grants permission to delete a user in an Amazon Connect instance	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteUserHierarchyGroup</a>	Grants permission to delete a user hierarchy group in an Amazon Connect instance	Write	<a href="#">hierarchy-group*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DeleteView</a>	Grants permission to delete a view in an Amazon Connect instance	Write	<a href="#">customer-managed-view*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteViewVersion</a>	Grants permission to delete a view version in an Amazon Connect instance	Write	<a href="#">customer-managed-view-version*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteVocabulary</a>	Grants permission to delete a vocabulary in an Amazon Connect instance	Write	<a href="#">vocabulary*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteWorkspace</a>	Grants permission to delete a workspace in an Amazon Connect instance	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteWorkspaceMedia</a>	Grants permission to delete workspace media in an Amazon Connect instance	Write	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DeleteWorkspacePage</a>	Grants permission to delete a workspace page in an Amazon Connect instance	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeAgentStatus</a>	Grants permission to describe agent status in an Amazon Connect instance	Read	<a href="#">agent-status*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeAuthenticationProfile</a>	Grants permission to describe authentication profile resources in an Amazon Connect instance	Read	<a href="#">authentication-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a>	
<a href="#">DescribeContact</a>	Grants permission to describe a contact in an Amazon Connect instance	Read	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	
<a href="#">DescribeContactEvaluation</a>	Grants permission to describe a contact evaluation in the specified Amazon Connect instance	Read	<a href="#">contact-evaluation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeContactFlow</a>	Grants permission to describe a contact flow in an Amazon Connect instance	Read	<a href="#">contact-flow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:FlowType</a>	
<a href="#">DescribeFlowModule</a>	Grants permission to describe a contact flow module in an Amazon Connect instance	Read	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeContactFlowModuleAlias</a>	Grants permission to describe an alias of a flow module version in an Amazon Connect instance	Read	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeDataTable</a>	Grants permission to describe a data table in an Amazon Connect instance	Read	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeDataTableAttribute</a>	Grants permission to describe an attribute of a data table in an Amazon Connect instance	Read	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEmailAddress</a>	Grants permission to describe an email address resource in an Amazon Connect instance	Read	<a href="#">email-address*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">DescribeEvaluationForm</a>	Grants permission to describe an evaluation form in the specified Amazon Connect instance. If the version property is not provided, the latest version of the evaluation form is described	Read	<a href="#">evaluation-form*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">DescribeForecastingPlanningSchedulingIntegration</a> [permission only]	Grants permission to describe the status of forecasting, planning, and scheduling integration on an Amazon Connect instance	Read	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">DescribeHoursOfOperation</a>	Grants permission to describe hours of operation in an Amazon Connect instance	Read	<a href="#">hours-of-operation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeHoursOfOperationOverride</a>	Grants permission to describe an hours of operation override in an Amazon Connect instance	Read	<a href="#">hours-of-operation*</a> <a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DescribeInstance</a>	Grants permission to view details of an Amazon Connect instance and is also required to create an instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	ds:DescribeDirectories
<a href="#">DescribeInstanceAttribute</a>	Grants permission to view the attribute details of an existing Amazon Connect instance	Read	<a href="#">instance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:AttributeType</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeInstanceStorageConfig</a>	Grants permission to view the instance storage configuration for an existing Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:StorageResourceType</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeNotification</a>	Grants permission to describe a notification in an Amazon Connect instance	Read	<a href="#">notification*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribePhoneNumber</a>	Grants permission to describe phone number resources in an Amazon Connect instance or traffic distribution group	Read	<a href="#">phone-number*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeP redefined Attribute</a>	Grants permission to describe a predefined attribute in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DescribePrompt</a>	Grants permission to describe a prompt in an Amazon Connect instance	Read	<a href="#">prompt*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeQueue</a>	Grants permission to describe a queue in an Amazon Connect instance	Read	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeQuickConnect</a>	Grants permission to describe a quick connect in an Amazon Connect instance	Read	<a href="#">quick-connect*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeRoutingProfile</a>	Grants permission to describe a routing profile in an Amazon Connect instance	Read	<a href="#">routing-profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeRule</a>	Grants permission to describe a rule in an Amazon Connect instance	Read	<a href="#">rule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DescribeSecurityProfile</a>	Grants permission to describe a security profile in an Amazon Connect instance	Read	<a href="#">security-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">DescribeTrafficDistributionGroup</a>	Grants permission to describe a traffic distribution group	Read	<a href="#">traffic-distribution-group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeUser</a>	Grants permission to describe a user in an Amazon Connect instance	Read	<a href="#">user*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">DescribeUserHierarchyGroup</a>	Grants permission to describe a hierarchy group for an Amazon Connect instance	Read	<a href="#">hierarchy-group*</a>		
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeUserHierarchyStructure</a>	Grants permission to describe the hierarchy structure for an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DescribeView</a>	Grants permission to describe a view in an Amazon Connect instance	Read	<a href="#">aws-managed-view*</a>		
			<a href="#">customer-managed-view*</a>		
			<a href="#">qualified-aws-managed-view*</a>		
			<a href="#">qualified-customer-managed-view*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVocabulary</a>	Grants permission to describe a vocabulary in an Amazon Connect instance	Read	<a href="#">vocabulary*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">DescribeWorkspace</a>	Grants permission to describe a workspace in an Amazon Connect instance	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">DisassociateAnalyticsDataSet</a>	Grants permission to revoke access and to disassociate a dataset with the specified AWS account	Write	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">DisassociateApprovedOrigin</a>	Grants permission to disassociate approved origin for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateBot</a>	Grants permission to disassociate a Lex bot for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy  lex:DeleteResourcePolicy  lex:UpdateResourcePolicy
				<a href="#">connect:instanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateCustomerProfileDomain</a> [permission only]	Grants permission to disassociate a Customer Profiles domain for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		iam:AttachRolePolicy  iam>DeleteRolePolicy  iam:DetachRolePolicy  iam:GetPolicy  iam:GetPolicyVersion  iam:GetRolePolicy
<a href="#">DisassociateEmailAddressAlias</a>	Grants permission to disassociate an alias from an email address resource in an Amazon Connect instance	Write	<a href="#">email-address*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateFlow</a>	Grants permission to disassociate a resource from a flow in an Amazon Connect instance	Write	<a href="#">wildcard-phone-number*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DisassociateInstanceStorageConfig</a>	Grants permission to disassociate instance storage for an existing Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:StorageResourceType</a> <a href="#">connect:InstanceId</a>	
<a href="#">DisassociateLambdaFunction</a>	Grants permission to disassociate a Lambda function for an existing Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	<a href="#">lambda:RemovePermission</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateLexBot</a>	Grants permission to disassociate a Lex bot for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		iam:AttachRolePolicy iam:CreateServiceLinkedRole iam:PutRolePolicy
				<a href="#">connect:InstanceId</a>	
<a href="#">DisassociatePhoneNumberContactFlow</a>	Grants permission to disassociate contact flow resources from phone number resources in an Amazon Connect instance	Write	<a href="#">phone-number*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DisassociateQueueEmailAddresses</a>	Grants permission to disassociate a set of email addresses from a queue	Write	<a href="#">queue*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateQueueQuickConnects</a>	Grants permission to disassociate quick connects from a queue in an Amazon Connect instance	Write	<a href="#">queue*</a>		
			<a href="#">quick-connect*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">connect:InstanceId</a>
<a href="#">DisassociateRoutingProfileQueues</a>	Grants permission to disassociate queues from a routing profile in an Amazon Connect instance	Write	<a href="#">routing-profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">connect:InstanceId</a>
<a href="#">DisassociateSecurityKey</a>	Grants permission to disassociate the security key for an existing Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">DisassociateSecurityProfiles</a>	Grants permission to disassociate security profiles with an AI agent in an Amazon Connect instance	Write	<a href="#">instance*</a>		
			<a href="#">security-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateTrafficDistributionGroupUser</a>	Grants permission to disassociate a user from a traffic distribution group in the specified Amazon Connect instance	Write	<a href="#">ai-agent</a> <a href="#">instance*</a> <a href="#">traffic-distribution-group*</a> <a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:InstanceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateUserProficiencies</a>	Grants permission to disassociate user proficiencies from a user in an Amazon Connect instance	Write	<a href="#">instance*</a> <a href="#">user*</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateWorkspace</a>	Grants permission to disassociate a workspace from a user or routing profile in an Amazon Connect instance	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">DismissUserContact</a>	Grants permission to dismiss terminated Contact from Agent CCP	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">EvaluateDataTableValues</a>	Grants permission to evaluate values in a data table in an Amazon Connect instance	Read	<a href="#">data-table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	
<a href="#">GetAttachedFile</a>	Grants permission to get an attached file from an Amazon Connect instance	Read	<a href="#">attached-file*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetContactAttributes</a>	Grants permission to retrieve the contact attributes for the specified contact	Read	<a href="#">contact*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
				<a href="#">connect:ContactAssociationId</a>	
				<a href="#">connect:Channel</a>	
				<a href="#">connect:UserArn</a>	
<a href="#">GetContactMetrics</a>	Grants permission to get contact metrics in an Amazon Connect instance	Read	<a href="#">contact*</a>		
			<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">GetCurrentMetricData</a>	Grants permission to retrieve current metric data for queues and routing profiles in an Amazon Connect instance	Read	<a href="#">queue*</a>		
			<a href="#">routing-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">GetCurrentUserData</a>	Grants permission to retrieve current user data in an Amazon Connect instance	Read	<a href="#">hierarchy-group*</a>  <a href="#">queue*</a>  <a href="#">routing-profile*</a>  <a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">GetEffectiveHoursOfOperations</a>	Grants permission to get effective hours of operation resources in an Amazon Connect instance	Read	<a href="#">hours-of-operation*</a>  <a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFederationToken</a>	Grants permission to federate into an Amazon Connect instance when using SAML-based authentication for identity management	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">GetFlowAssociation</a>	Grants permission to get information about the flow associations for the specified Amazon Connect instance	Read	<a href="#">wildcard-phone-number*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">GetMetricData</a>	Grants permission to retrieve historical metric data for queues in an Amazon Connect instance	Read	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">GetMetricDataV2</a>	Grants permission to retrieve metric data in an Amazon Connect instance	Read	<a href="#">hierarchy-group*</a> <a href="#">queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">routing-profile*</a>		
			<a href="#">user*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">GetPromptFile</a>	Grants permission to get details about a prompt's presigned Amazon S3 URL in an Amazon Connect instance	Read	<a href="#">prompt*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">GetTaskTemplate</a>	Grants permission to get details about specified task template in an Amazon Connect instance	Read	<a href="#">task-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTrafficDistribution</a>	Grants permission to read traffic distribution for a traffic distribution group	List	<a href="#">traffic-distribution-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ImportPhoneNumber</a>	Grants permission to import phone number resources to an Amazon Connect instance	Write	<a href="#">instance*</a>		sms-voice:DescribePhoneNumbers  social-messaging:GetLinkedWhatsAppBusinessAccountPhoneNumber  social-messaging:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">wildcard-phone-number*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ImportWorkspaceMedia</a>	Grants permission to import workspace media in an Amazon Connect instance	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListAgentStatuses</a>	Grants permission to list agent statuses in an Amazon Connect instance	List	<a href="#">wildcard-agent-status*</a>		
<a href="#">ListAnalyticsDataAssociations</a>	Grants permission to list the association status of a dataset for a given Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAnalyticsDataLakeDataSets</a>	Grants permission to list data lake datasets available to associate with for a given Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListApprovedOrigins</a>	Grants permission to view approved origins of an existing Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListAssociatedContacts</a>	Grants permission to list the contacts associated with an email address in an Amazon Connect instance	List	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListAuthenticationProfiles</a>	Grants permission to list authentication profile resources in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListBots</a>	Grants permission to view the Lex bots of an existing Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListContactEvaluations</a>	Grants permission to list contact evaluations in the specified Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListContactFlowModuleAliases</a>	Grants permission to list the aliases of a flow module in an Amazon Connect instance	List	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListContactFlowModuleVersions</a>	Grants permission to list all the versions of a flow module in an Amazon Connect instance	List	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListContactFlowModules</a>	Grants permission to list contact flow module resources in an Amazon Connect instance	List	<a href="#">instance*</a>		
<a href="#">ListContactFlowVersions</a>	Grants permission to list all the versions a flow in an Amazon Connect instance	List	<a href="#">contact-flow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListContactFlows</a>	Grants permission to list contact flow resources in an Amazon Connect instance	List	<a href="#">wildcard-contact-flow*</a>	<a href="#">connect:InstanceId</a>	
				<a href="#">connect:FlowType</a>	
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListContactReferences</a>	Grants permission to list references associated with a contact in an Amazon Connect instance	List	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	
<a href="#">ListDataTableAttributes</a>	Grants permission to list attributes of a data table in an Amazon Connect instance	List	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDataTablePrimaryValues</a>	Grants permission to list primary values in a data table in an Amazon Connect instance	List	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	
<a href="#">ListDataTableValues</a>	Grants permission to list values in a data table in an Amazon Connect instance	List	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDataTables</a>	Grants permission to list data tables in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListDefaultVocabularies</a>	Grants permission to list default vocabularies associated with a Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListEntitySecurityProfiles</a>	Grants permission to list security profiles associated with an entity in an Amazon Connect instance	List	<a href="#">instance*</a> <a href="#">ai-agent</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListEvaluationFormVersions</a>	Grants permission to list versions of an evaluation form in the specified Amazon Connect instance	List	<a href="#">evaluation-form*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListEvaluationForms</a>	Grants permission to list evaluation forms in the specified Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFlowAssociations</a>	Grants permission to list summary information about the flow associations for the specified Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListHoursOfOperationOverrides</a>	Grants permission to list hours of operation override resources in an Amazon Connect instance	List	<a href="#">hours-of-operation*</a> <a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListHoursOfOperations</a>	Grants permission to list hours of operation resources in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListInstanceAttributes</a>	Grants permission to view the attributes of an existing Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListInstanceStorageConfigs</a>	Grants permission to view storage configurations of an existing Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListInstances</a>	Grants permission to view the Amazon Connect instances associated with an AWS account	List			ds:DescribeDirectories

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIntegrationAssociations</a>	Grants permission to list summary information about the integration associations for the specified Amazon Connect instance	List	<a href="#">instance*</a>		connect:DescribeInstance  ds:DescribeDirectories
				<a href="#">connect:InstanceId</a>	
<a href="#">ListLambdaFunctions</a>	Grants permission to view the Lambda functions of an existing Amazon Connect instance	List	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">ListLexBots</a>	Grants permission to view the Lex bots of an existing Amazon Connect instance	List	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">ListNotifications</a>	Grants permission to list notifications in an Amazon Connect instance	Read	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">ListPhoneNumbers</a>	Grants permission to list phone number resources in an Amazon Connect instance	List	<a href="#">wildcard-legacy-phone-number*</a>		
<a href="#">ListPhoneNumbersV2</a>	Grants permission to list phone number resources in an Amazon Connect instance	List	<a href="#">wildcard-phone-number*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPredefinedAttributes</a>	Grants permission to list predefined attributes in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListPrompts</a>	Grants permission to list prompt resources in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListQueueEmailAddresses</a>	Grants permission to list the email address metadata associated with a queue	List	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListQueueQuickConnects</a>	Grants permission to list quick connect resources in a queue in an Amazon Connect instance	List	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListQueues</a>	Grants permission to list queue resources in an Amazon Connect instance	List	<a href="#">wildcard-queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListQuickConnects</a>	Grants permission to list quick connect resources in an Amazon Connect instance	List	<a href="#">wildcard-quick-connect*</a>		
<a href="#">ListRealtimeContactAnalysisSegments</a>	Grants permission to list the analysis segments for a real-time analysis session	Read	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListRealtimeContactAnalysisSegmentsV2</a>	Grants permission to list the analysis segments for a real-time chat analytics session	List	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:ListRealtimeContactAnalysisSegmentsByOutputType</a>  <a href="#">connect:ListRealtimeContactAnalysisSegmentsBySegmentType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRoutingProfileManualAssignmentQueues</a>	Grants permission to list manual assignment queue resources in a routing profile in an Amazon Connect instance	List	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListRoutingProfileQueues</a>	Grants permission to list queue resources in a routing profile in an Amazon Connect instance	List	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListRoutingProfiles</a>	Grants permission to list routing profile resources in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListRules</a>	Grants permission to list rules associated with a Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListSecurityKeys</a>	Grants permission to view the security keys of an existing Amazon Connect instance	List	<a href="#">instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a>	
<a href="#">ListSecurityProfilesApplications</a>	Grants permission to list applications associated with a specific security profile in an Amazon Connect instance	List	<a href="#">security-profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListSecurityProfilesFlowModules</a>	Grants permission to list flow modules associated with a security profile in an Amazon Connect instance	List	<a href="#">instance*</a> <a href="#">security-profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListSecurityProfilesPermissions</a>	Grants permission to list permissions associated with security profile in an Amazon Connect instance	List	<a href="#">security-profile*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">ListSecurityProfiles</a>  <a href="#">ListTagsForResource</a>	<p>Grants permission to list security profile resources in an Amazon Connect instance</p> <p>Grants permission to list tags for an Amazon Connect resource</p>	<p>List</p> <p>Read</p>	<p><a href="#">instance*</a></p> <p><a href="#">agent-status</a></p> <p><a href="#">contact-evaluation</a></p> <p><a href="#">contact-flow</a></p> <p><a href="#">contact-flow-module</a></p> <p><a href="#">evaluation-form</a></p> <p><a href="#">hierarchy-group</a></p> <p><a href="#">hours-of-operation</a></p>	<p><a href="#">connect:InstanceId</a></p>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integration-association</a>		
			<a href="#">phone-number</a>		
			<a href="#">prompt</a>		
			<a href="#">queue</a>		
			<a href="#">quick-connect</a>		
			<a href="#">routing-profile</a>		
			<a href="#">rule</a>		
			<a href="#">security-profile</a>		
			<a href="#">traffic-distribution-group</a>		
			<a href="#">use-case</a>		
			<a href="#">user</a>		
			<a href="#">wildcard-phone-number</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTaskTemplates</a>	Grants permission to list task template resources in an Amazon Connect instance	List	<a href="#">instance*</a>		
<a href="#">ListTrafficDistributionGroupUsers</a>	Grants permission to list the active user associations for a traffic distribution group	List	<a href="#">traffic-distribution-group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTrafficDistributionGroups</a>	Grants permission to list traffic distribution groups	List	<a href="#">traffic-distribution-group*</a>		
<a href="#">ListUseCases</a>	Grants permission to list the use cases of an integration association	List	<a href="#">instance*</a>		connect:DescribeInstance  ds:DescribeDirectories

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a>	
<a href="#">ListUserHierarchyGroups</a>	Grants permission to list the hierarchy group resources in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListUserNotifications</a>	Grants permission to list notifications for a user in an Amazon Connect instance	Read	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListUserProficiencies</a>	Grants permission to list user proficiencies from a user in an Amazon Connect instance	List	<a href="#">instance*</a> <a href="#">user*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListUsers</a>	Grants permission to list user resources in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListViewVersions</a>	Grants permission to list the view versions in an Amazon Connect instance	List	<a href="#">aws-managed-view*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">customer-managed-view*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListViews</a>	Grants permission to list the views in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">ListWorkspaceMedia</a>	Grants permission to list workspace media in an Amazon Connect instance	List	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListWorkspacePages</a>	Grants permission to list workspace pages in an Amazon Connect instance	List	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">ListWorkspaces</a>	Grants permission to list workspaces in an Amazon Connect instance	List	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">MonitorContact</a>	Grants permission to monitor an ongoing contact	Write	<a href="#">contact*</a> <a href="#">instance*</a> <a href="#">user*</a>	<a href="#">connect:MonitorCapabilities</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">PauseContact</a>	Grants permission to pause an ongoing contact	Write	<a href="#">contact*</a> <a href="#">instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">contact-f</a> <a href="#">low</a>		
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">PutUserStatus</a>	Grants permission to switch User Status in an Amazon Connect instance	Write	<a href="#">agent-status*</a>		
			<a href="#">instance*</a>		
			<a href="#">user*</a>		
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">ReleasePhoneNumber</a>	Grants permission to release phone number resources in an Amazon Connect instance	Write	<a href="#">phone-number*</a>		
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Replicate Instance</a>	Grants permission to create a replica of an Amazon Connect instance	Write	<a href="#">instance*</a>		ds:AuthorizeApplication ds:CheckAlias ds:CreateAlias ds:CreateDirectory ds:CreateIdentityPoolDirectory ds>DeleteDirectory ds:DescribeDirectories ds:UnauthorizeApplication iam:AttachRolePolicy



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:CreateServiceLinkedRole  iam:PutRolePolicy
<a href="#">ResumeContact</a>	Grants permission to resume a paused contact	Write	<a href="#">contact*</a>  <a href="#">instance*</a>  <a href="#">contact-flow</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResumeContactRecording</a>	Grants permission to resume recording for the specified contact	Write	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	
<a href="#">SearchAgentStatuses</a>	Grants permission to search agent status resources in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	<a href="#">connect:DescribeAgentStatus</a>
<a href="#">SearchAvailablePhoneNumbers</a>	Grants permission to search phone number resources in an Amazon Connect instance or traffic distribution group	List	<a href="#">wildcard-phone-number*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchContactEvaluations</a>	Grants permission to search evaluation resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeContactEvaluation
<a href="#">SearchContactFlowModules</a>	Grants permission to search contact flow module resources in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	connect:DescribeContactFlowModule
<a href="#">SearchContactFlows</a>	Grants permission to search contact flow resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeContactFlow

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a> <a href="#">connect:FlowType</a>	
<a href="#">SearchContacts</a>	Grants permission to search contacts in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:SearchTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:SearchContactsByContactAnalysis</a> <a href="#">connect:Channel</a> <a href="#">connect:ReferredUserArn</a>	<a href="#">connect:DescribeContact</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchDataTables</a>	Grants permission to search data tables in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeDataTable
<a href="#">SearchEmailAddresses</a>	Grants permission to search email address resources in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	connect:DescribeEmailAddresses
<a href="#">SearchEvaluationForms</a>	Grants permission to search evaluation forms resources in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	connect:DescribeEvaluationForm

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchHoursOfOperationOverrides</a>	Grants permission to search hours of operation override resources in an Amazon Connect instance	Read	<a href="#">hours-of-operation*</a>		connect:DescribeHoursOfOperation  connect:ListHoursOfOperationOverrides
			<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchHoursOfOperations</a>	Grants permission to search hours of operation resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeHoursOfOperation
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchNotifications</a>		Read	<a href="#">instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to search notifications in an Amazon Connect instance			<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchPredefinedAttributes</a>	Grants permission to search predefined attributes in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribePredefinedAttribute
				<a href="#">connect:InstanceId</a>	
<a href="#">SearchPrompts</a>	Grants permission to search prompt resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribePrompt
				<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchQueues</a>	Grants permission to search queue resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeQueue

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchQuickConnects</a>	Grants permission to search quick connect resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeQuickConnect
				<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchResourceTags</a>	Grants permission to search tags that are used in an Amazon Connect instance	List	<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SearchRoutingProfiles</a>	Grants permission to search routing profile resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeRoutingProfile



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchSecurityProfiles</a>	Grants permission to search security profile resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeSecurityProfile
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchUserHierarchyGroups</a>	Grants permission to search user hierarchy group resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeUserHierarchyGroup
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchUsers</a>	Grants permission to search user resources in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeUser  connect:ListUserProficiencies
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchViews</a>	Grants permission to search views in an Amazon Connect instance	Read	<a href="#">instance*</a>		connect:DescribeView
				<a href="#">connect:InstanceId</a>  <a href="#">connect:SearchTag/\${TagKey}</a>	
<a href="#">SearchVocabularies</a>	Grants permission to search vocabularies in a Amazon Connect instance	List	<a href="#">vocabulary*</a>		
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchWorkspaceAssociations</a>	Grants permission to search workspace associations in an Amazon Connect instance	Read	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">SearchWorkspaces</a>	Grants permission to search workspaces in an Amazon Connect instance	Read	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:SearchTag/\${TagKey}</a>	connect:DescribeWorkspace
<a href="#">SendChatIntegrationEvent</a>	Grants permission to send chat integration events using the Amazon Connect API	Write			
<a href="#">SendIntegrationEvent</a> [permission only]	Grants permission to send integration events using the Amazon Connect API	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendOutboundChatMessage</a> [permission only]	Grants permission to send outbound chat messages using the Amazon Connect API	Write	<a href="#">instance*</a>		social-messaging:SendWhatsAppMessage  wisdom:GetMessageTemplate  wisdom:RenderMessageTemplate
			<a href="#">phone-number*</a>		
				<a href="#">connect:InstanceId</a>  <a href="#">connect:Subtype</a>	
<a href="#">SendOutboundEmail</a>	Grants permission to send outbound email using the Amazon Connect API	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">StartAttachedFileUpload</a>	Grants permission to start an attached file upload in an Amazon Connect instance	Write	<a href="#">attached-file*</a>		cases:CreateRelatedItem

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a> <a href="#">connect:UserArn</a>	
<a href="#">StartChat</a> <a href="#">Contact</a>	Grants permission to initiate a chat using the Amazon Connect API	Write	<a href="#">contact-flow*</a> <a href="#">contact</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartContactEvaluation</a>	Grants permission to start an empty evaluation in the specified Amazon Connect instance, using the given evaluation form for the particular contact. The evaluation form version used for the contact evaluation corresponds to the currently activated version. If no version is activated for the evaluation form, the contact evaluation cannot be started	Write	<a href="#">contact*</a>		
			<a href="#">contact-evaluation*</a>		
			<a href="#">evaluation-form*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">StartContactMediaProcessing</a>	Grants permission to start message processing on an ongoing contact	Write	<a href="#">contact*</a>		
			<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">StartContactRecording</a>	Grants permission to start recording for the specified contact	Write	<a href="#">contact*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	
<a href="#">StartContactStreaming</a>	Grants permission to start chat streaming using the Amazon Connect API	Write	<a href="#">instance*</a>		
<a href="#">StartEmailContact</a>	Grants permission to initiate an inbound email using the Amazon Connect API	Write	<a href="#">contact-flow</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartForecastingPlanningSchedulingIntegration</a> [permission only]	Grants permission to enable forecasting, planning, and scheduling integration on an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">StartOutboundChatContact</a>	Grants permission to initiate an outbound chat using the Amazon Connect API	Write	<a href="#">contact-flow*</a>		wisdom:GetMessageTemplate  wisdom:RenderMessageTemplate
			<a href="#">instance*</a>		
			<a href="#">contact</a>		
			<a href="#">phone-number</a>		
				<a href="#">connect:InstanceId</a>  <a href="#">connect:Subtype</a>	
<a href="#">StartOutboundEmailContact</a>	Grants permission to initiate an outbound email using the Amazon Connect API	Write	<a href="#">contact-flow</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">StartOutboundVoiceContact</a>	Grants permission to initiate outbound calls using the Amazon Connect API	Write	<a href="#">contact*</a>		
<a href="#">StartScreenSharing</a>	Grants permission to start screen sharing for contact	Write	<a href="#">contact*</a> <a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTaskContact</a>	Grants permission to initiate a task using the Amazon Connect API	Write	<a href="#">contact-f</a> <a href="#">low*</a>		
			<a href="#">contact</a>		
			<a href="#">quick-connect</a>		
			<a href="#">task-template</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:AssignmentType</a>	
<a href="#">StartWebRTCContact</a>	Grants permission to initiate a WebRTC contact using the Amazon Connect API	Write	<a href="#">contact-f</a> <a href="#">low*</a>		
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopContact</a>	Grants permission to stop contacts that were initiated using the Amazon Connect API. If you use this operation on an active contact the contact ends, even if the agent is active on a call with a customer	Write	<a href="#">contact*</a>	<a href="#">connect:InstanceId</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	
<a href="#">StopContactMediaProcessing</a>	Grants permission to stop message processing on an ongoing contact	Write	<a href="#">contact*</a> <a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">StopContactRecording</a>	Grants permission to stop recording for the specified contact	Write	<a href="#">contact*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	
<a href="#">StopContactStreaming</a>	Grants permission to stop chat streaming using the Amazon Connect API	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopForecastingPlanningSchedulingIntegration</a> [permission only]	Grants permission to disable forecasting, planning, and scheduling integration on an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SubmitContactEvaluation</a>	Grants permission to submit a contact evaluation in the specified Amazon Connect instance. Answers included in the request are merged with existing answers for the given evaluation. If no answers or notes are passed, the evaluation is submitted with the existing answers and notes. You can delete an answer or note by passing an empty object ({} ) to the question identifier	Write	<a href="#">contact-evaluation*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">SuspendContactRecording</a>	Grants permission to suspend recording for the specified contact	Write	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagContact</a>	Grants permission to tag a contact in an Amazon Connect instance	Write	<a href="#">contact*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	
<a href="#">TagResource</a>	Grants permission to tag an Amazon Connect resource	Tagging	<a href="#">agent-status</a> <a href="#">contact-evaluation</a> <a href="#">contact-flow</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">contact-flow-module</a>		
			<a href="#">customer-managed-view</a>		
			<a href="#">email-address</a>		
			<a href="#">evaluation-form</a>		
			<a href="#">hierarchy-group</a>		
			<a href="#">hours-of-operation</a>		
			<a href="#">instance</a>		
			<a href="#">integration-association</a>		
			<a href="#">phone-number</a>		
			<a href="#">prompt</a>		
			<a href="#">queue</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">quick-connect</a>		
			<a href="#">routing-profile</a>		
			<a href="#">rule</a>		
			<a href="#">security-profile</a>		
			<a href="#">task-template</a>		
			<a href="#">traffic-distribution-group</a>		
			<a href="#">use-case</a>		
			<a href="#">user</a>		
			<a href="#">vocabulary</a>		
			<a href="#">wildcard-phone-number</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TransferContact</a>	Grants permission to transfer the contact to another queue or agent	Write	<a href="#">contact*</a> <a href="#">contact-follower*</a> <a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagContact</a>	Grants permission to untag a contact in an Amazon Connect instance	Write	<a href="#">contact*</a>	<a href="#">aws:TagKeys</a> <a href="#">connect:InstanceId</a> <a href="#">connect:ContactAssociationId</a> <a href="#">connect:Channel</a> <a href="#">connect:UserArn</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Amazon Connect resource	Tagging	<a href="#">agent-status</a> <a href="#">contact-evaluation</a> <a href="#">contact-flow</a> <a href="#">contact-flow-module</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">customer-managed-view</a>		
			<a href="#">email-address</a>		
			<a href="#">evaluation-form</a>		
			<a href="#">hierarchy-group</a>		
			<a href="#">hours-of-operation</a>		
			<a href="#">instance</a>		
			<a href="#">integration-association</a>		
			<a href="#">phone-number</a>		
			<a href="#">prompt</a>		
			<a href="#">queue</a>		
			<a href="#">quick-connect</a>		
			<a href="#">routing-profile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rule</a>		
			<a href="#">security-profile</a>		
			<a href="#">task-template</a>		
			<a href="#">traffic-distribution-group</a>		
			<a href="#">use-case</a>		
			<a href="#">user</a>		
			<a href="#">vocabulary</a>		
			<a href="#">wildcard-phone-number</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgentStatus</a>	Grants permission to update agent status in an Amazon Connect instance	Write	<a href="#">agent-status*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateAuthenticationProfile</a>	Grants permission to update authentication profile resources in an Amazon Connect instance	Write	<a href="#">authentication-profile*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdateContact</a>	Grants permission to update a contact in an Amazon Connect instance	Write	<a href="#">contact*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContactAttributes</a>	Grants permission to create or update the contact attributes associated with the specified contact	Write	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	
<a href="#">UpdateContactEvaluation</a>	Grants permission to update details about a contact evaluation in the specified Amazon Connect instance. A contact evaluation must be in the draft state. Answers included in the request are merged with existing answers for the given evaluation. An answer or note can be deleted by passing an empty object ({} to the question identifier	Write	<a href="#">contact-evaluation*</a>	<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContactFlowContent</a>	Grants permission to update contact flow content in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:FlowType</a>	
<a href="#">UpdateContactFlowMetadata</a>	Grants permission to update the metadata of a contact flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:FlowType</a>	
<a href="#">UpdateContactFlowModuleAlias</a>	Grants permission to update an alias of a flow module version in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateContactFlowModuleContent</a>	Grants permission to update contact flow module content in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>		
<a href="#">UpdateContactFlowModuleMetadata</a>	Grants permission to update the metadata of a contact flow module in an Amazon Connect instance	Write	<a href="#">contact-flow-module*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContactFlowName</a>	Grants permission to update the name and description of a contact flow in an Amazon Connect instance	Write	<a href="#">contact-flow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:FlowType</a>	
<a href="#">UpdateContactRoutingData</a>	Grants permission to update routing properties on a contact in an Amazon Connect instance	Write	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContactSchedule</a>	Grants permission to update the schedule of a contact that is already scheduled in an Amazon Connect instance	Write	<a href="#">contact*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>  <a href="#">connect:ContactAssociationId</a>  <a href="#">connect:Channel</a>  <a href="#">connect:UserArn</a>	
<a href="#">UpdateDataTableAttribute</a>	Grants permission to update an attribute of a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataTableMetadata</a>	Grants permission to update metadata of a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateDataTablePrimaryValues</a>	Grants permission to update primary values in a data table in an Amazon Connect instance	Write	<a href="#">data-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a> <a href="#">connect:PrimaryAttribute/\${PrimaryAttribute}</a>	
<a href="#">UpdateEmailAddressMetadata</a>	Grants permission to update the metadata of an email address resource in an Amazon Connect instance	Write	<a href="#">email-address*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateEvaluationForm</a>	Grants permission to update details about a specific evaluation form version in the specified Amazon Connect instance. Question and section identifiers cannot be duplicated within the same evaluation form	Write	<a href="#">evaluation-form*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdateHoursOfOperation</a>	Grants permission to update hours of operation in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateHoursOfOperationOverride</a>	Grants permission to update an hours of operation override in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance*</a>		
				<a href="#">connect:InstanceId</a>	
<a href="#">UpdateInstanceAttribute</a>	Grants permission to update the attribute for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		ds:DescribeDirectories  iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy  logs:CreateLogGroup
				<a href="#">connect:AttributeType</a>	
				<a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInstanceStorageConfig</a>	Grants permission to update the storage configuration for an existing Amazon Connect instance	Write	<a href="#">instance*</a>		ds:DescribeDirectories  firehose:DescribeDeliveryStream  iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy  kinesis:DescribeStream  kms:CreateGrant  kms:DescribeKey  s3:GetBucketAcl

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:GetBucketLocation
				<a href="#">connect:StorageResourceType</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateNotificationContent</a>	Grants permission to update the content of a notification in an Amazon Connect instance	Write	<a href="#">notification*</a>		
<a href="#">UpdateParticipantAuthentication</a>	Grants permission to update and continue authentication for a specific contact	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateParticipantRoleConfig</a>	Grants permission to update participant role configurations associated with a contact	Write	<a href="#">contact*</a> <a href="#">instance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdatePhoneNumber</a>	Grants permission to update phone number resources in an Amazon Connect instance or traffic distribution group	Write	<a href="#">instance*</a>  <a href="#">phone-number*</a>  <a href="#">traffic-distribution-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdatePhoneNumberMetadata</a>	Grants permission to update the metadata of a phone number resource in an Amazon Connect instance or traffic distribution group	Write	<a href="#">phone-number*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePredefinedAttribute</a>	Grants permission to update a predefined attribute in an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdatePrompt</a>	Grants permission to update a prompt's name, description, and Amazon S3 URI in an Amazon Connect instance	Write	<a href="#">prompt*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	kms:Decrypt s3:GetObject s3:GetObjectAcl
<a href="#">UpdateQueueHoursOfOperation</a>	Grants permission to update queue hours of operation in an Amazon Connect instance	Write	<a href="#">hours-of-operation*</a> <a href="#">queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateQueueMaxContacts</a>	Grants permission to update queue capacity in an Amazon Connect instance	Write	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateQueueName</a>	Grants permission to update a queue name and description in an Amazon Connect instance	Write	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateQueueOutboundCallerConfig</a>	Grants permission to update queue outbound caller config in an Amazon Connect instance	Write	<a href="#">queue*</a> <a href="#">contact-flow</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">phone-number</a>		
<a href="#">UpdateQueueOutboundEmailConfig</a>	Grants permission to update the outbound email configuration for a queue in an Amazon Connect instance	Write	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateQueueStatus</a>	Grants permission to update queue status in an Amazon Connect instance	Write	<a href="#">queue*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateQuickConnectConfig</a>	Grants permission to update the configuration of a quick connect in an Amazon Connect instance	Write	<a href="#">quick-connect*</a>  <a href="#">contact-flow</a>  <a href="#">queue</a>  <a href="#">user</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:instanceId</a>	
<a href="#">UpdateQuickConnectName</a>	Grants permission to update a quick connect name and description in an Amazon Connect instance	Write	<a href="#">quick-connect*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:instanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRoutingProfileAvailabilityTimer</a>	Grants permission to update a routing profile agent availability timer in an Amazon Connect instance	Write	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateRoutingProfileConcurrency</a>	Grants permission to update the concurrency in a routing profile in an Amazon Connect instance	Write	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateRoutingProfileDefaultOutboundQueue</a>	Grants permission to update the outbound queue in a routing profile in an Amazon Connect instance	Write	<a href="#">queue*</a>  <a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRoutingProfileName</a>	Grants permission to update a routing profile name and description in an Amazon Connect instance	Write	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateRoutingProfileQueues</a>	Grants permission to update the queues in routing profile in an Amazon Connect instance	Write	<a href="#">routing-profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateRule</a>	Grants permission to update a rule for an existing Amazon Connect instance	Write	<a href="#">rule*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdateSecurityProfile</a>	Grants permission to update a security profile group for a user in an Amazon Connect instance	Write	<a href="#">security-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateTaskTemplate</a>	Grants permission to update task template belonging to a Amazon Connect instance	Write	<a href="#">task-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateTrafficDistribution</a>	Grants permission to update traffic distribution for a traffic distribution group	Write	<a href="#">traffic-distribution-group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateUserHierarchy</a>	Grants permission to update a hierarchy group for a user in an Amazon Connect instance	Write	<a href="#">user*</a>  <a href="#">hierarchy-group</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserHierarchyGroupName</a>	Grants permission to update a user hierarchy group name in an Amazon Connect instance	Write	<a href="#">hierarchy-group*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserHierarchyStructure</a>	Grants permission to update user hierarchy structure in an Amazon Connect instance	Write	<a href="#">instance*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserIdentityInfo</a>	Grants permission to update identity information for a user in an Amazon Connect instance	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateUserNotificationStatus</a>	Grants permission to update the status of a user notification in an Amazon Connect instance	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserPhoneConfig</a>	Grants permission to update phone configuration settings for a user in an Amazon Connect instance	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserProficiencies</a>	Grants permission to update user proficiencies from a user in an Amazon Connect instance	Write	<a href="#">instance*</a> <a href="#">user*</a>	<a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserRoutingProfile</a>	Grants permission to update a routing profile for a user in an Amazon Connect instance	Write	<a href="#">routing-profile*</a> <a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateUserSecurityProfiles</a>	Grants permission to update security profiles for a user in an Amazon Connect instance	Write	<a href="#">security-profile*</a>  <a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	
<a href="#">UpdateViewContent</a>	Grants permission to update a view's content in an Amazon Connect instance	Write	<a href="#">customer-managed-view*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">connect:InstanceId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateViewMetadata</a>	Grants permission to update a view's metadata in an Amazon Connect instance	Write	<a href="#">customer-managed-view*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">UpdateWorkspaceMetadata</a>	Grants permission to update workspace metadata in an Amazon Connect instance	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">connect:InstanceId</a>	
<a href="#">UpdateWorkspacePage</a>	Grants permission to update a workspace page in an Amazon Connect instance	Write	<a href="#">workspace*</a>		
			<a href="#">aws-managed-view</a>		
			<a href="#">customer-managed-view</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateWorkspaceTheme</a>	Grants permission to update workspace theme in an Amazon Connect instance	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	
<a href="#">UpdateWorkspaceVisibility</a>	Grants permission to update workspace visibility in an Amazon Connect instance	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">connect:InstanceId</a>	

## Resource types defined by Amazon Connect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">instance</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">contact</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/contact/\${ContactId}	
<a href="#">user</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/agent/\${UserId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">routing-profile</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/routing-profile/\${RoutingProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">security-profile</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/security-profile/\${SecurityProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">authentication-profile</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/authentication-profile/\${AuthenticationProfileId}	
<a href="#">hierarchy-group</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/agent-group/\${HierarchyGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">data-table</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/data-table/\${DataTableId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">queue</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/queue/\${QueueId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">wildcard-queue</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/queue/*	
<a href="#">quick-connect</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/transfer-destination/\${QuickConnectId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">wildcard-quick-connect</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/transfer-destination/*	
<a href="#">contact-flow</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/contact-flow/\${ContactFlowId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">task-template</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/task-template/\${TaskTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">contact-flow-module</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/flow-module/\${ContactFlowModuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">wildcard-contact-flow</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/contact-flow/*	

Resource types	ARN	Condition keys
<a href="#">hours-of-operation</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/operating-hours/\${HoursOfOperationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">agent-status</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/agent-state/\${AgentStatusId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">wildcard-agent-status</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/agent-state/*	
<a href="#">legacy-ph one-number</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/phone-number/\${PhoneNumberId}	
<a href="#">wildcard-legacy-ph one-number</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/phone-number/*	
<a href="#">phone-number</a>	arn:\${Partition}:connect:\${Region}:\${Account}:phone-number/\${PhoneNumberId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">wildcard-phone-number</a>	arn:\${Partition}:connect:\${Region}:\${Account}:phone-number/*	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">integration-association</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/integration-association/\${IntegrationAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">use-case</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/use-case/\${UseCaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vocabulary</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/vocabulary/\${VocabularyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">traffic-distribution-group</a>	arn:\${Partition}:connect:\${Region}:\${Account}:traffic-distribution-group/\${TrafficDistributionGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/rule/\${RuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">evaluation-form</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/evaluation-form/\${FormId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">contact-evaluation</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/contact-evaluation/\${EvaluationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">prompt</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/prompt/\${PromptId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">customer-managed-view</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/view/\${ViewId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">aws-managed-view</a>	arn:\${Partition}:connect:\${Region}:aws:view/\${ViewId}	

Resource types	ARN	Condition keys
<a href="#">qualified-customer-managed-view</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/view/\${ViewId}:\${ViewQualifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">qualified-aws-managed-view</a>	arn:\${Partition}:connect:\${Region}:aws:view/\${ViewId}:\${ViewQualifier}	
<a href="#">customer-managed-view-version</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/view/\${ViewId}:\${ViewVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">attached-file</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/file/\${FileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">email-address</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/email-address/\${EmailAddressId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ai-agent</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:ai-agent/\${AssistantId}/\${AIAgentId}:\${Version}	
<a href="#">workspace</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/workspace/\${WorkspaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">notification</a>	arn:\${Partition}:connect:\${Region}:\${Account}:instance/\${InstanceId}/notification/\${NotificationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Connect

Amazon Connect defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by using tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by using tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by using tag keys in the request	ArrayOfString
<a href="#">connect:AssignmentType</a>	Filters access by restricting access to create contacts based on Assignment Type	String
<a href="#">connect:AttributeType</a>	Filters access by the attribute type of the Amazon Connect instance	String
<a href="#">connect:Channel</a>	Filters access by Channel	String
<a href="#">connect:ContactAssociationId</a>	Filters access by ContactAssociationId	String
<a href="#">connect:ContactInitiationMethod</a>	Filters access by restricting access to create contacts based on the initiation method of the contact	String
<a href="#">connect:ExpressionValue</a>	Filters access by restricting data table operations based on expression type	String

Condition keys	Description	Type
<a href="#">connect:FlowType</a>	Filters access by Flow type	ArrayOfString
<a href="#">connect:InstanceId</a>	Filters access by restricting federation into specified Amazon Connect instances	String
<a href="#">connect:ListRealtimeContactAnalysisSegmentsByOutputType</a>	Filters access by restricting the listed segments using the output type of the Amazon Connect Contact Lens real-time segment	String
<a href="#">connect:ListRealtimeContactAnalysisSegmentsBySegmentType</a>	Filters access by restricting the listed segments using the segment types of the Amazon Connect Contact Lens real-time segment	ArrayOfString
<a href="#">connect:MonitorCapabilities</a>	Filters access by restricting the monitor capabilities of the user in the request	ArrayOfString
<a href="#">connect:PreferredUserArn</a>	Filters access by PreferredUserArn	ARN
<a href="#">connect:PrimaryAttribute/{PrimaryAttribute}</a>	Filters access by restricting which primary attributes the user can manage	String
<a href="#">connect:SearchContactsByContactAnalysis</a>	Filters access by restricting searches using analysis outputs from Amazon Connect Contact Lens	ArrayOfString

Condition keys	Description	Type
<a href="#">connect:SearchTag/\${TagKey}</a>	Filters access by TagFilter condition passed in the search request	String
<a href="#">connect:StorageResourceType</a>	Filters access by restricting the storage resource type of the Amazon Connect instance storage configuration	String
<a href="#">connect:Subtype</a>	Filters access by restricting creation of a contact for specific subtypes	String
<a href="#">connect:UserArn</a>	Filters access by UserArn	ARN

## Actions, resources, and condition keys for Amazon Connect Cases

Amazon Connect Cases (service prefix: cases) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Connect Cases](#)
- [Resource types defined by Amazon Connect Cases](#)
- [Condition keys for Amazon Connect Cases](#)

## Actions defined by Amazon Connect Cases

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetCaseRule</a>	Grants permission to retrieve information about the case rules in the case domain	Read	<a href="#">CaseRule*</a>		
			<a href="#">Domain*</a>		
<a href="#">BatchGetField</a>	Grants permission to retrieve information about the fields in the case domain	Read	<a href="#">Domain*</a>		
			<a href="#">Field*</a>		
<a href="#">BatchPutFieldOptions</a>	Grants permission to update the field options in the case domain	Write	<a href="#">Domain*</a>		
			<a href="#">Field*</a>		
<a href="#">CreateCase</a>	Grants permission to create a case in the case domain	Write	<a href="#">Case*</a>		
			<a href="#">Domain*</a>		
			<a href="#">Field*</a>		
			<a href="#">Template*</a>		
				<a href="#">connect:UserArn</a>	
<a href="#">CreateCaseRule</a>	Grants permission to create a case rule in the case domain	Write	<a href="#">CaseRule*</a>		
			<a href="#">Domain*</a>		
<a href="#">CreateDomain</a>	Grants permission to create a new case domain	Write			
<a href="#">CreateField</a>	Grants permission to create a field in the case domain	Write	<a href="#">Domain*</a>		
			<a href="#">Field*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLayout</a>	Grants permission to create a layout in the case domain	Write	<a href="#">Domain*</a> <a href="#">Layout*</a>		
<a href="#">CreateRelatedItem</a>	Grants permission to create a related item associated to a case in the case domain	Write	<a href="#">Case*</a> <a href="#">Domain*</a> <a href="#">RelatedItem*</a>	<a href="#">connect:UserArn</a>	
<a href="#">CreateTemplate</a>	Grants permission to create a template in the case domain	Write	<a href="#">Domain*</a> <a href="#">Layout*</a> <a href="#">Template*</a>		
<a href="#">DeleteCase</a>	Grants permission to delete the case in the case domain	Write	<a href="#">Case*</a> <a href="#">Domain*</a>		
<a href="#">DeleteCaseRule</a>	Grants permission to delete the case rule in the case domain	Write	<a href="#">CaseRule*</a> <a href="#">Domain*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete the domain	Write	<a href="#">Domain*</a>		
<a href="#">DeleteField</a>	Grants permission to delete the field in the case domain	Write	<a href="#">Domain*</a> <a href="#">Field*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLayout</a>	Grants permission to delete the layout in the case domain	Write	<a href="#">Domain*</a> <a href="#">Layout*</a>		
<a href="#">DeleteRelatedItem</a>	Grants permission to delete the related item associated to the case in the case domain	Write	<a href="#">Case*</a> <a href="#">Domain*</a> <a href="#">RelatedItem*</a>		
<a href="#">DeleteTemplate</a>	Grants permission to delete the template in the case domain	Write	<a href="#">Domain*</a> <a href="#">Template*</a>		
<a href="#">GetCase</a>	Grants permission to retrieve information about a case in the case domain	Read	<a href="#">Case*</a> <a href="#">Domain*</a> <a href="#">Field*</a>		
<a href="#">GetCaseAuditEvents</a>	Grants permission to view audit history of a case	Read	<a href="#">Case*</a> <a href="#">Domain*</a>		
<a href="#">GetCaseEventConfiguration</a>	Grants permission to retrieve information about the case event configuration in the case domain	Read	<a href="#">Domain*</a>		
<a href="#">GetDomain</a>	Grants permission to retrieve information about the case domain	Read	<a href="#">Domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLayout</a>	Grants permission to retrieve information about the layout in the case domain	Read	<a href="#">Domain*</a> <a href="#">Layout*</a>		
<a href="#">GetTemplate</a>	Grants permission to retrieve information about the template in the case domain	Read	<a href="#">Domain*</a> <a href="#">Template*</a>		
<a href="#">ListCaseRules</a>	Grants permission to list case rules in the case domain	List	<a href="#">Domain*</a>		
<a href="#">ListCasesForContact</a>	Grants permission to list cases for a specific contact in the case domain	List	<a href="#">Domain*</a>		
<a href="#">ListDomains</a>	Grants permission to list all domains in the aws account	List			
<a href="#">ListFieldOptions</a>	Grants permission to list field options for a single select field in the case domain	List	<a href="#">Domain*</a> <a href="#">Field*</a>		
<a href="#">ListFields</a>	Grants permission to list fields in the case domain	List	<a href="#">Domain*</a>		
<a href="#">ListLayouts</a>	Grants permission to list layouts in the case domain	List	<a href="#">Domain*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	Read			
<a href="#">ListTemplates</a>	Grants permission to list templates in the case domain	List	<a href="#">Domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutCaseEventConfiguration</a>	Grants permission to insert or update the case event configuration in the case domain	Write	<a href="#">Domain*</a>		
<a href="#">SearchCases</a>	Grants permission to search for cases in the case domain	Read	<a href="#">Domain*</a>		
<a href="#">SearchRelatedItems</a>	Grants permission to search for related items associated to the case in the case domain	Read	<a href="#">Case*</a> <a href="#">Domain*</a>		
<a href="#">TagResource</a>	Grants permission to add the specified tags to the specified resource	Tagging	<a href="#">Case</a> <a href="#">CaseRule</a> <a href="#">Domain</a> <a href="#">Field</a> <a href="#">Layout</a> <a href="#">RelatedItem</a> <a href="#">Template</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the specified resource	Tagging	<a href="#">Case</a> <a href="#">CaseRule</a> <a href="#">Domain</a> <a href="#">Field</a> <a href="#">Layout</a> <a href="#">RelatedItem</a> <a href="#">Template</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCase</a>	Grants permission to update the field values on the case in the case domain	Write	<a href="#">Case*</a> <a href="#">Domain*</a> <a href="#">Field*</a>	<a href="#">connect:UserArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCaseRule</a>	Grants permission to update the case rule in the case domain	Write	<a href="#">CaseRule*</a> <a href="#">Domain*</a>		
<a href="#">UpdateField</a>	Grants permission to update the field in the case domain	Write	<a href="#">Domain*</a> <a href="#">Field*</a>		
<a href="#">UpdateLayout</a>	Grants permission to update the layout in the case domain	Write	<a href="#">Domain*</a> <a href="#">Layout*</a>		
<a href="#">UpdateTemplate</a>	Grants permission to update the template in the case domain	Write	<a href="#">Domain*</a> <a href="#">Template*</a>		

## Resource types defined by Amazon Connect Cases

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Case</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}/case/\${CaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Domain</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Field</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}/field/\${FieldId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Layout</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}/layout/\${LayoutId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RelatedItem</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}/case/\${CaseId}/related-item/\${RelatedItemId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Template</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}/template/\${TemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">CaseRule</a>	arn:\${Partition}:cases:\${Region}:\${Account}:domain/\${DomainId}/case-rule/\${CaseRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Connect Cases

Amazon Connect Cases defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString
<a href="#">connect:UserArn</a>	Filters access by connect's UserArn	ARN

## Actions, resources, and condition keys for Amazon Connect Customer Profiles

Amazon Connect Customer Profiles (service prefix: `profile`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Connect Customer Profiles](#)
- [Resource types defined by Amazon Connect Customer Profiles](#)
- [Condition keys for Amazon Connect Customer Profiles](#)

## Actions defined by Amazon Connect Customer Profiles

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddProfileKey</a>	Grants permission to add a profile key	Write	<a href="#">domains*</a>		
<a href="#">BatchGetCalculatedAttributeForProfile</a>	Grants permission to retrieve a calculated attribute for the specific profiles in the domain	Read	<a href="#">calculate-d-attributes*</a> <a href="#">domains*</a>		
<a href="#">BatchGetProfile</a>	Grants permission to get profiles in the domain	Read	<a href="#">domains*</a>		
<a href="#">CreateCalculatedAttributeDefinition</a>	Grants permission to create a calculated attribute definition in the domain	Write	<a href="#">calculate-d-attributes*</a> <a href="#">domains*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDomain</a>	Grants permission to create a Domain	Write	<a href="#">domains*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole
<a href="#">CreateDomainLayout</a>	Grants permission to create a layout in the domain	Write	<a href="#">domains*</a> <a href="#">layouts*</a>	<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEventStream</a>	Grants permission to put an event stream in a domain	Write	<a href="#">domains*</a>		iam:PutRolePolicy  kinesis:DescribeStreamSummary
			<a href="#">event-streams*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEventTrigger</a>	Grants permission to create an event trigger in the domain	Write	<a href="#">domains*</a>		
			<a href="#">event-triggers*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIntegrationWorkflow</a>	Grants permission to create an integration workflow in a domain	Write	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integrations*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateProfile</a>	Grants permission to create a profile in the domain	Write	<a href="#">domains*</a>		
<a href="#">CreateRecommender</a>	Grants permission to create a Recommender in the domain	Write	<a href="#">domains*</a>		
			<a href="#">recommenders*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateSegmentDefinition</a>	Grants permission to create a segment definition in the domain	Write	<a href="#">domains*</a>		
			<a href="#">segment-definitions*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateSegmentEstimate</a>	Grants permission to create a segment estimate in the domain	Write	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSegmentSnapshot</a>	Grants permission to create a segment snapshot in the domain	Write	<a href="#">domains*</a> <a href="#">segment-definition*</a>		
<a href="#">CreateSnapshot</a> [permission only]	Grants permission to create a snapshot in the domain	Write	<a href="#">domains*</a>		
<a href="#">CreateUploadJob</a>	Grants permission to create an upload job in the domain	Write	<a href="#">domains*</a>		
<a href="#">DeleteCalculatedAttributeDefinition</a>	Grants permission to delete a calculated attribute definition in the domain	Write	<a href="#">calculate-attributes*</a> <a href="#">domains*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete a Domain	Write	<a href="#">domains*</a>		
<a href="#">DeleteDomainLayout</a>	Grants permission to delete a layout in the domain	Write	<a href="#">domains*</a> <a href="#">layouts*</a>		
<a href="#">DeleteDomainObjectType</a>	Grants permission to delete a specific domain object type in the domain	Write	<a href="#">domain-object-types*</a> <a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEventStream</a>	Grants permission to delete an event stream in a domain	Write	<a href="#">domains*</a>		iam:DeleteRolePolicy
			<a href="#">event-streams*</a>		
<a href="#">DeleteEventTrigger</a>	Grants permission to delete an event trigger in the domain	Write	<a href="#">domains*</a>		
			<a href="#">event-triggers*</a>		
<a href="#">DeleteIntegration</a>	Grants permission to delete a integration in a domain	Write	<a href="#">domains*</a>		
			<a href="#">integrations*</a>		
<a href="#">DeleteProfile</a>	Grants permission to delete a profile	Write	<a href="#">domains*</a>		
<a href="#">DeleteProfileKey</a>	Grants permission to delete a profile key	Write	<a href="#">domains*</a>		
<a href="#">DeleteProfileObject</a>	Grants permission to delete a profile object	Write	<a href="#">domains*</a>		
			<a href="#">object-types*</a>		
<a href="#">DeleteProfileObjectType</a>	Grants permission to delete a specific profile object type in the domain	Write	<a href="#">domains*</a>		
			<a href="#">object-types*</a>		
<a href="#">DeleteRecommender</a>	Grants permission to delete a recommender in a domain	Write	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">recommenders*</a>		
<a href="#">DeleteSegmentDefinition</a>	Grants permission to delete a segment definition in the domain	Write	<a href="#">domains*</a>		
			<a href="#">segment-definition*</a>		
<a href="#">DeleteWorkflow</a>	Grants permission to delete a workflow in a domain	Write	<a href="#">domains*</a>		
<a href="#">DetectProfileObjectType</a>	Grants permission to auto detect object type	Read	<a href="#">domains*</a>		
<a href="#">GetAutoMergingPreview</a>	Grants permission to get a preview of auto merging in a domain	Read	<a href="#">domains*</a>		
<a href="#">GetCalculatedAttributeDefinition</a>	Grants permission to get a calculated attribute definition in the domain	Read	<a href="#">calculate-d-attributes*</a>		
			<a href="#">domains*</a>		
<a href="#">GetCalculatedAttributeForProfile</a>	Grants permission to retrieve a calculated attribute for a specific profile in the domain	Read	<a href="#">calculate-d-attributes*</a>		
			<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDomain</a>	Grants permission to get a specific domain in an account	Read	<a href="#">domains*</a>		
<a href="#">GetDomainLayout</a>	Grants permission to get a layout in the domain	Read	<a href="#">domains*</a> <a href="#">layouts*</a>		
<a href="#">GetDomainObjectType</a>	Grants permission to get a specific domain object type in the domain	Read	<a href="#">domain-object-types*</a> <a href="#">domains*</a>		
<a href="#">GetEventStream</a>	Grants permission to get a specific event stream in a domain	Read	<a href="#">domains*</a> <a href="#">event-streams*</a>		kinesis:DescribeStreamSummary
<a href="#">GetEventTrigger</a>	Grants permission to get an event trigger in the domain	Read	<a href="#">domains*</a> <a href="#">event-triggers*</a>		
<a href="#">GetIdentityResolutionJob</a>	Grants permission to get an identity resolution job in a domain	Read	<a href="#">domains*</a>		
<a href="#">GetIntegration</a>	Grants permission to get a specific integrations in a domain	Read	<a href="#">domains*</a> <a href="#">integrations*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMatches</a>	Grants permission to get profile matches in a domain	List	<a href="#">domains*</a>		
<a href="#">GetObjectAttributeStatistics</a>	Grants permission to get statistics of a specific attribute for object type in the domain	Read	<a href="#">domains*</a> <a href="#">object-types*</a>		
<a href="#">GetProfileHistoryRecord</a>	Grants permission to get a profile history record for a profile in a domain	Read	<a href="#">domains*</a>		
<a href="#">GetProfileInsights</a>	Grants permission to list insights for a profile	Read	<a href="#">domains*</a>		
<a href="#">GetProfileObjectType</a>	Grants permission to get a specific profile object type in the domain	Read	<a href="#">domains*</a> <a href="#">object-types*</a>		
<a href="#">GetProfileObjectTypeTemplate</a>	Grants permission to get a specific object type template	Read			
<a href="#">GetProfileRecommendations</a>	Grants permission to list recommendations for a profile	Read	<a href="#">domains*</a> <a href="#">recommenders*</a>		
<a href="#">GetRecommender</a>	Grants permission to get Recommender details in a domain	Read	<a href="#">domains*</a> <a href="#">recommenders*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSegmentDefinition</a>	Grants permission to get a segment definition in the domain	Read	<a href="#">domains*</a> <a href="#">segment-definition*</a>		
<a href="#">GetSegmentEstimate</a>	Grants permission to get a segment estimate in the domain	Read	<a href="#">domains*</a>		
<a href="#">GetSegmentMembership</a>	Grants permission to determine if the given profiles are part of a segment in the domain	Read	<a href="#">domains*</a> <a href="#">segment-definition*</a>		
<a href="#">GetSegmentSnapshot</a>	Grants permission to get a segment snapshot in the domain	Read	<a href="#">domains*</a> <a href="#">segment-definition*</a>		
<a href="#">GetSimilarProfiles</a>	Grants permission to get all the similar profiles in the domain	List	<a href="#">domains*</a>		
<a href="#">GetSnapshot</a> [permission only]	Grants permission to get a snapshot in the domain	Read	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUploadJob</a>	Grants permission to get details of an upload job in the domain	Read	<a href="#">domains*</a>		
<a href="#">GetUploadJobPath</a>	Grants permission to get a pre-signed URL to upload file for an upload job	Read	<a href="#">domains*</a>		
<a href="#">GetWorkflow</a>	Grants permission to get workflow details in a domain	Read	<a href="#">domains*</a>		
<a href="#">GetWorkflowSteps</a>	Grants permission to get workflow step details in a domain	Read	<a href="#">domains*</a>		
<a href="#">ListAccountIntegrations</a>	Grants permission to list all the integrations in the account	List			
<a href="#">ListCalculatedAttributeDefinitions</a>	Grants permission to list all the calculated attribute definitions in the domain	List	<a href="#">domains*</a>		
<a href="#">ListCalculatedAttributesForProfile</a>	Grants permission to list all calculated attributes for a specific profile in the domain	List	<a href="#">domains*</a>		
<a href="#">ListDomainLayouts</a>	Grants permission to list all the layouts in the domain	List	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDomainObjectTypes</a>	Grants permission to list all the domain object types in the domain	List	<a href="#">domains*</a>		
<a href="#">ListDomainObjects</a>	Grants permission to list domain objects in a domain	List	<a href="#">domain-object-types*</a>		
<a href="#">ListDomains</a>	Grants permission to list all the domains in an account	List	<a href="#">domains*</a>		
<a href="#">ListEventStreams</a>	Grants permission to list all the event streams in a specific domain	List	<a href="#">domains*</a>		
<a href="#">ListEventTriggers</a>	Grants permission to list all the event triggers in the domain	List	<a href="#">domains*</a>		
<a href="#">ListIdentityResolutionJobs</a>	Grants permission to list identity resolution jobs in a domain	List	<a href="#">domains*</a>		
<a href="#">ListIntegrations</a>	Grants permission to list all the integrations in a specific domain	List	<a href="#">domains*</a>		
<a href="#">ListObjectTypeAttributeValues</a>	Grants permission to list values of a specific attribute for object type in the domain	List	<a href="#">domains*</a>		
			<a href="#">object-types*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListObjectTypeAttributes</a>	Grants permission to list all the attributes of a specific object type in the domain	List	<a href="#">domains*</a> <a href="#">object-types*</a>		
<a href="#">ListProfileAttributeValues</a>	Grants permission to list all the values of a profile attribute in the domain	List	<a href="#">domains*</a>		
<a href="#">ListProfileHistoryRecords</a>	Grants permission to list all the profile history records for a profile in a domain	List	<a href="#">domains*</a>		
<a href="#">ListProfileObjectTypeTemplates</a>	Grants permission to list all the profile object type templates in the account	List			
<a href="#">ListProfileObjectTypes</a>	Grants permission to list all the profile object types in the domain	List	<a href="#">domains*</a>		
<a href="#">ListProfileObjects</a>	Grants permission to list all the profile objects for a profile	List	<a href="#">domains*</a> <a href="#">object-types*</a>		
<a href="#">ListRecommenderRecipes</a>	Grants permission to list all the Recommenders Recipes in the domain	List			
<a href="#">ListRecommenders</a>	Grants permission to list all the Recommenders in the domain	List	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRuleBasedMatches</a>	Grants permission to list all the rule-based matching result in the domain	List	<a href="#">domains*</a>		
<a href="#">ListSegmentDefinitions</a>	Grants permission to list all the segment definitions in the domain	List	<a href="#">domains*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">calculate-attributes</a> <a href="#">domain-object-types</a> <a href="#">domains</a> <a href="#">event-streams</a> <a href="#">event-triggers</a> <a href="#">integrations</a> <a href="#">layouts</a> <a href="#">object-types</a> <a href="#">recommenders</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">segment-definitions</a>		
<a href="#">ListUploadJobs</a>	Grants permission to list all upload jobs in the domain	List	<a href="#">domains*</a>		
<a href="#">ListWorkflows</a>	Grants permission to list all the workflows in a specific domain	List	<a href="#">domains*</a>		
<a href="#">MergeProfiles</a>	Grants permission to merge profiles in a domain	Write	<a href="#">domains*</a>		
<a href="#">PutDomainObjectType</a>	Grants permission to put a specific domain object type in the domain	Write	<a href="#">domain-object-types*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
			<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutIntegration</a>	Grants permission to put a integration in a domain	Write	<a href="#">domains*</a>		app-integrations:CreateDataIntegrationAssociation app-integrations:DeleteDataIntegrationAssociation app-integrations:GetDataIntegration app-integrations:ListDataIntegrationAssociations kms:CreateGrant

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integrations*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PutProfileObject</a>	Grants permission to put an object for a profile	Write	<a href="#">domains*</a> <a href="#">object-types*</a>		
<a href="#">PutProfileObjectType</a>	Grants permission to put a specific profile object type in the domain	Write	<a href="#">domains*</a> <a href="#">object-types*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">SearchProfiles</a>	Grants permission to search for profiles in a domain	Read	<a href="#">domains*</a>		
<a href="#">StartRecommender</a>	Grants permission to start a recommender in a domain	Write	<a href="#">domains*</a> <a href="#">recommenders*</a>		
<a href="#">StartUploadJob</a>	Grants permission to start an upload job in the domain	Write	<a href="#">domains*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopRecommender</a>	Grants permission to stop a recommender in a domain	Write	<a href="#">domains*</a> <a href="#">recommenders*</a>		
<a href="#">StopUploadJob</a>	Grants permission to stop an upload job in the domain	Write	<a href="#">domains*</a>		
<a href="#">TagResource</a>	Grants permission to adds tags to a resource	Tagging	<a href="#">calculate-attributes</a> <a href="#">domain-object-types</a> <a href="#">domains</a> <a href="#">event-streams</a> <a href="#">event-triggers</a> <a href="#">integrations</a> <a href="#">layouts</a> <a href="#">object-types</a> <a href="#">recommenders</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">segment-definitions</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">calculate-attributes</a>		
			<a href="#">domain-object-types</a>		
			<a href="#">domains</a>		
			<a href="#">event-streams</a>		
			<a href="#">event-triggers</a>		
			<a href="#">integrations</a>		
			<a href="#">layouts</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">object-types</a>		
			<a href="#">recommenders</a>		
			<a href="#">segmented-definitions</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCalculatedAttributeDefinition</a>	Grants permission to update a calculated attribute definition in the domain	Write	<a href="#">calculate-attributes*</a>		
			<a href="#">domains*</a>		
<a href="#">UpdateDomain</a>	Grants permission to update a Domain	Write	<a href="#">domains*</a>		iam:CreateServiceLinkedRole
<a href="#">UpdateDomainLayout</a>	Grants permission to update a layout in the domain	Write	<a href="#">domains*</a>		
			<a href="#">layouts*</a>		
<a href="#">UpdateEventTrigger</a>	Grants permission to update an event trigger in the domain	Write	<a href="#">domains*</a>		
			<a href="#">event-triggers*</a>		
<a href="#">UpdateProfile</a>	Grants permission to update a profile in the domain	Write	<a href="#">domains*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRecommender</a>	Grants permission to update a Recommender in the domain	Write	<a href="#">domains*</a> <a href="#">recommenders*</a>		

## Resource types defined by Amazon Connect Customer Profiles

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">domains</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">object-types</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/object-types/\${ObjectTypeName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">integrations</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/integrations/\${Uri}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">event-streams</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/event-streams/\${EventStreamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">calculated-attributes</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/calc	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
	ulated-attributes/\${CalculatedAttributeName}	
<a href="#">segment-definitions</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/segment-definitions/\${SegmentDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">event-triggers</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/event-triggers/\${EventTriggerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">layouts</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/layouts/\${LayoutDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">recommenders</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/recommenders/\${RecommenderTypeName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">domain-object-types</a>	arn:\${Partition}:profile:\${Region}:\${Account}:domains/\${DomainName}/domain-object-types/\${ObjectTypeName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Connect Customer Profiles

Amazon Connect Customer Profiles defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a key that is present in the request the user makes to the customer profile service	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names present in the request the user makes to the customer profile service	ArrayOfString

## Actions, resources, and condition keys for Amazon Connect Health

Amazon Connect Health (service prefix: health-agent) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Connect Health](#)
- [Resource types defined by Amazon Connect Health](#)
- [Condition keys for Amazon Connect Health](#)

## Actions defined by Amazon Connect Health

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateSubscription</a>	Grants permission to activate a subscription to enable billing for a user	Write	<a href="#">Domain*</a> <a href="#">Subscription*</a>		
<a href="#">CancelAppointment</a> [permission only]	Grants permission to cancel an appointment	Write	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">CreateAgent</a> [permission only]	Grants permission to create a new agent with an initial version in DRAFT state	Write	<a href="#">Agent*</a> <a href="#">Domain*</a>		
<a href="#">CreateDomain</a>	Grants permission to create a new domain for managing HealthAgent resources	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	health-agent:TagResource iam:PassRole
<a href="#">CreateIntegration</a> [permission only]	Grants permission to create a new integration for a domain	Write	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">CreateSession</a> [permission only]	Grants permission to create a new session with specified agent configurations	Write	<a href="#">Agent*</a> <a href="#">Domain*</a> <a href="#">Session*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubscription</a>	Grants permission to create a new subscription within a domain for billing and user management	Write	<a href="#">Domain*</a> <a href="#">Subscription*</a>		
<a href="#">DeactivateSubscription</a>	Grants permission to deactivate a subscription to stop billing for a user	Write	<a href="#">Domain*</a> <a href="#">Subscription*</a>		
<a href="#">DeleteAgent</a> [permission only]	Grants permission to delete an agent configuration and all its versions	Write	<a href="#">Agent*</a> <a href="#">Domain*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete a domain and all associated resources	Write	<a href="#">Domain*</a>		
<a href="#">DeleteIntegration</a> [permission only]	Grants permission to delete an integration	Write	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">GetAgent</a> [permission only]	Grants permission to retrieve an agent configuration, defaulting to the most recent version if not specified	Read	<a href="#">Agent*</a> <a href="#">Domain*</a>		
<a href="#">GetCareTeamProvider</a> [permission only]	Grants permission to retrieve the care team provider of a patient	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDomain</a>	Grants permission to retrieve information about a domain	Read	<a href="#">Domain*</a>		
<a href="#">GetIntegration</a> [permission only]	Grants permission to get an existing integration	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">GetMedicalScribingSession</a>	Grants permission to retrieve details about an existing Medical Scribe listening session	Read	<a href="#">Domain*</a> <a href="#">Subscription*</a>		
<a href="#">GetPatient</a> [permission only]	Grants permission to retrieve patient information	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">GetPatientInsightsJob</a>	Grants permission to get details of a started patient insights job	Read	<a href="#">Domain*</a> <a href="#">PatientInsightsJob*</a>		
<a href="#">GetPractitioner</a> [permission only]	Grants permission to retrieve practitioner information	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">GetSessionContext</a> [permission only]	Grants permission to retrieve structured session context including attributes and collected data	Read	<a href="#">Domain*</a> <a href="#">Session*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSubscription</a>	Grants permission to retrieve information about a subscription	Read	<a href="#">Domain*</a> <a href="#">Subscription*</a>		
<a href="#">InvokeAgent</a> [permission only]	Grants permission to invoke an agent within a session with streaming response support	Write	<a href="#">Domain*</a> <a href="#">Session*</a>		
<a href="#">ListAgents</a> [permission only]	Grants permission to list all agents in a domain	List	<a href="#">Domain*</a>		
<a href="#">ListAppointmentSlots</a> [permission only]	Grants permission to list available appointment slots	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">ListDomains</a>	Grants permission to list domains for a given account	List			
<a href="#">ListIntegrations</a> [permission only]	Grants permission to list integrations for a domain	List	<a href="#">Domain*</a>		
<a href="#">ListPatientAppointments</a> [permission only]	Grants permission to list patient appointments	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPatientInsuranceCoverages</a> [permission only]	Grants permission to list patient insurance coverages	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">ListProviders</a> [permission only]	Grants permission to retrieve active providers available for scheduling appointments with a patient	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">ListSubscriptions</a>	Grants permission to list all subscriptions within a domain	List	<a href="#">Domain*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	List	<a href="#">Domain</a>		
<a href="#">MatchPatient</a> [permission only]	Grants permission to match a patient	Read	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">PublishAgent</a> [permission only]	Grants permission to publish an agent configuration version	Write	<a href="#">Agent*</a> <a href="#">Domain*</a>		
<a href="#">RescheduleAppointment</a> [permission only]	Grants permission to reschedule an appointment	Write	<a href="#">Domain*</a> <a href="#">Integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ScheduleAppointment</a> [permission only]	Grants permission to schedule an appointment for a patient	Write	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">StartMedicalScribeListeningSession</a>	Grants permission to start a new Medical Scribe listening session for real-time audio transcription	Write	<a href="#">Domain*</a> <a href="#">Subscription*</a>		
<a href="#">StartPatientInsightsJob</a>	Grants permission to start a new patient insights job	Write	<a href="#">Domain*</a> <a href="#">PatientInsightsJob*</a>		
<a href="#">TagResource</a>	Grants permission to add the specified tags to the specified resource	Tagging	<a href="#">Domain</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove the tags identified by the TagKeys list from a resource	Tagging	<a href="#">Domain</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAgent</a> [permission only]	Grants permission to update a draft agent configuration, creating a new draft version if none exists	Write	<a href="#">Agent*</a> <a href="#">Domain*</a>		
<a href="#">UpdateIntegration</a> [permission only]	Grants permission to update an existing integration	Write	<a href="#">Domain*</a> <a href="#">Integration*</a>		
<a href="#">UpdateSession</a> [permission only]	Grants permission to update session attributes such as departmentId and appointmentType	Write	<a href="#">Domain*</a> <a href="#">Session*</a>		

## Resource types defined by Amazon Connect Health

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Domain</a>	arn:\${Partition}:health-agent:\${Region}:\${Account}:domain/\${DomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">PatientInsightsJob</a>	arn:\${Partition}:health-agent:\${Region}:\${Account}:domain/\${DomainId}/patient-insights-job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Subscription</a>	arn:\${Partition}:health-agent:\${Region}:\${Account}:domain/\${DomainId}/subscription/\${SubscriptionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Integration</a>	arn:\${Partition}:health-agent:\${Region}:\${Account}:domain/\${DomainId}/integration/\${IntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Agent</a>	arn:\${Partition}:health-agent:\${Region}:\${Account}:domain/\${DomainId}/agent/\${AgentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Session</a>	arn:\${Partition}:health-agent:\${Region}:\${Account}:domain/\${DomainId}/session/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Connect Health

Amazon Connect Health defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Connect Outbound Campaigns

Amazon Connect Outbound Campaigns (service prefix: `connect-campaigns`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Connect Outbound Campaigns](#)
- [Resource types defined by Amazon Connect Outbound Campaigns](#)
- [Condition keys for Amazon Connect Outbound Campaigns](#)

## Actions defined by Amazon Connect Outbound Campaigns

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).



The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCampaign</a>	Grants permission to create a campaign	Write	<a href="#">campaign*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteCampaign</a>	Grants permission to delete a campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteCampaignChannelSubtypeConfig</a>	Grants permission to delete the channel subtype configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteCampaignCommunicationLimits</a>	Grants permission to delete the communication limits configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteCampaignCommunicationTime</a>	Grants permission to delete the communication time configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteConnectInstanceConfig</a>	Grants permission to remove configuration information for an Amazon Connect instance	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConnectInstanceIntegration</a>	Grants permission to remove integration information for an Amazon Connect instance	Write			
<a href="#">DeleteInstanceOnboardingJob</a>	Grants permission to remove onboarding job for an Amazon Connect instance	Write			
<a href="#">DescribeCampaign</a>	Grants permission to describe a specific campaign	Read	<a href="#">campaign*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetCampaignState</a>	Grants permission to get state of a campaign	Read	<a href="#">campaign*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetCampaignStateBatch</a>	Grants permission to get state of campaigns	Read	<a href="#">campaign*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetConnectInstanceConfig</a>	Grants permission to get configuration information for an Amazon Connect instance	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstanceCommunicationLimits</a>	Grants permission to get the communication limits configuration of an Amazon Connect instance	Read			
<a href="#">GetInstanceOnboardingJobStatus</a>	Grants permission to get onboarding job status for an Amazon Connect instance	Read			
<a href="#">ListCampaigns</a>	Grants permission to provide summary of all campaigns	List		<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">ListConnectInstanceIntegrations</a>	Grants permission to provide summary of all integrations with an Amazon Connect instance	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">campaign</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PauseCampaign</a>	Grants permission to pause a campaign	Write	<a href="#">campaign*</a>		
<a href="#">PutConnectInstanceIntegration</a>	Grants permission to put an integration configuration with an Amazon Connect instance	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutDialRequestBatch</a>	Grants permission to create dial requests for the specified campaign	Write	<a href="#">campaign*</a>		
<a href="#">PutInstanceCommunicationLimits</a>	Grants permission to put the communication limits configuration of an Amazon Connect instance	Write			
<a href="#">PutOutboundRequestBatch</a>	Grants permission to create dial requests for the specified campaign	Write	<a href="#">campaign*</a>		
<a href="#">PutProfileOutboundRequestBatch</a>	Grants permission to create profile outbound requests for the specified campaign	Write	<a href="#">campaign*</a>		
<a href="#">ResumeCampaign</a>	Grants permission to resume a campaign	Write	<a href="#">campaign*</a>		
<a href="#">StartCampaign</a>	Grants permission to start a campaign	Write	<a href="#">campaign*</a>		
<a href="#">StartInstanceOnboardingJob</a>	Grants permission to start onboarding job for an Amazon Connect instance	Write			
<a href="#">StopCampaign</a>	Grants permission to stop a campaign	Write	<a href="#">campaign*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">campaign*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">campaign*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCampaignChannelSubtypeConfig</a>	Grants permission to update the channel subtype configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignCommunicationLimits</a>	Grants permission to update the communication limits configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignCommunicationTime</a>	Grants permission to update the communication time configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignDialerConfig</a>	Grants permission to update the dialer configuration of a campaign	Write	<a href="#">campaign*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCampaignFlowAssociation</a>	Grants permission to update the flow association of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignName</a>	Grants permission to update the name of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignOutboundCallConfiguration</a>	Grants permission to update the outbound call configuration of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignSchedule</a>	Grants permission to update the schedule of a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateCampaignSource</a>	Grants permission to update the source of a campaign	Write	<a href="#">campaign*</a>		

## Resource types defined by Amazon Connect Outbound Campaigns

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">campaign</a>	arn:\${Partition}:connect-campaigns:\${Region}:\${Account}:campaign/\${CampaignId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Connect Outbound Campaigns

Amazon Connect Outbound Campaigns defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Connect Voice ID

Amazon Connect Voice ID (service prefix: `voiceid`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).



- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Connect Voice ID](#)
- [Resource types defined by Amazon Connect Voice ID](#)
- [Condition keys for Amazon Connect Voice ID](#)

## Actions defined by Amazon Connect Voice ID

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateFraudster</a>	Grants permission to associate a fraudster with a watchlist	Write	<a href="#">domain*</a>		
<a href="#">CreateDomain</a>	Grants permission to create a domain	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWatchlist</a>	Grants permission to create a watchlist	Write	<a href="#">domain*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete a domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFraudster</a>	Grants permission to delete a fraudster	Write	<a href="#">domain*</a>		
<a href="#">DeleteSpeaker</a>	Grants permission to delete a speaker	Write	<a href="#">domain*</a>		
<a href="#">DeleteWatchlist</a>	Grants permission to delete a watchlist	Write	<a href="#">domain*</a>		
<a href="#">DescribeComplianceConsent</a> [permission only]	Grants permission to describe compliance consent	Read			
<a href="#">DescribeDomain</a>	Grants permission to describe a domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeFraudster</a>	Grants permission to describe a fraudster	Read	<a href="#">domain*</a>		
<a href="#">DescribeFraudsterRegistrationJob</a>	Grants permission to describe a fraudster registration job	Read	<a href="#">domain*</a>		
<a href="#">DescribeSpeaker</a>	Grants permission to describe a speaker	Read	<a href="#">domain*</a>		
<a href="#">DescribeSpeakerEnrollmentJob</a>	Grants permission to describe a speaker enrollment job	Read	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWatchlist</a>	Grants permission to describe a watchlist	Read	<a href="#">domain*</a>		
<a href="#">DisassociateFraudster</a>	Grants permission to disassociate a fraudster from a watchlist	Write	<a href="#">domain*</a>		
<a href="#">EvaluateSession</a>	Grants permission to evaluate a session	Write	<a href="#">domain*</a>		
<a href="#">ListDomains</a>	Grants permission to list domains for an account	List			
<a href="#">ListFraudsterRegistrationJobs</a>	Grants permission to list fraudster registration jobs for a domain	List	<a href="#">domain*</a>		
<a href="#">ListFraudsters</a>	Grants permission to list fraudsters for a domain or watchlist	List	<a href="#">domain*</a>		
<a href="#">ListSpeakerEnrollmentJobs</a>	Grants permission to list speaker enrollment jobs for a domain	List	<a href="#">domain*</a>		
<a href="#">ListSpeakers</a>	Grants permission to list speakers for a domain	List	<a href="#">domain*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Voice ID resource	Read	<a href="#">domain</a>		
<a href="#">ListWatchlists</a>	Grants permission to list watchlists for a domain	List	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">OptOutSpeaker</a>	Grants permission to opt out a speaker	Write	<a href="#">domain*</a>		
<a href="#">RegisterComplianceConsent</a> [permission only]	Grants permission to register compliance consent	Write			
<a href="#">StartFraudsterRegistrationJob</a>	Grants permission to start a fraudster registration job	Write	<a href="#">domain*</a>		
<a href="#">StartSpeakerEnrollmentJob</a>	Grants permission to start a speaker enrollment job	Write	<a href="#">domain*</a>		
<a href="#">TagResource</a>	Grants permission to tag a Voice ID resource	Tagging	<a href="#">domain</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a Voice ID resource	Tagging	<a href="#">domain</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDomain</a>	Grants permission to update a domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWatchlist</a>	Grants permission to update a watchlist	Write	<a href="#">domain*</a>		

## Resource types defined by Amazon Connect Voice ID

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:voiceid:\${Region}:\${Account}:domain/\${DomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Connect Voice ID

Amazon Connect Voice ID defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Connector Service

AWS Connector Service (service prefix: `awsconnector`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Connector Service](#)
- [Resource types defined by AWS Connector Service](#)
- [Condition keys for AWS Connector Service](#)

## Actions defined by AWS Connector Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConnectorHealth</a> [permission only]	Retrieves all health metrics that were published from the Server Migration Connector.	Read			
<a href="#">RegisterConnector</a> [permission only]	Registers AWS Connector with AWS Connector Service.	Write			
<a href="#">ValidateConnectorId</a> [permission only]	Validates Server Migration Connector Id that was registered with AWS Connector Service.	Read			

## Resource types defined by AWS Connector Service

AWS Connector Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Connector Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Connector Service

Connector Service has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Management Console Mobile App

AWS Management Console Mobile App (service prefix: consoleapp) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Management Console Mobile App](#)
- [Resource types defined by AWS Management Console Mobile App](#)
- [Condition keys for AWS Management Console Mobile App](#)

## Actions defined by AWS Management Console Mobile App


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDeviceIdentity</a>	Grants permission to retrieve the device identity for a Console Mobile App device	Read	<a href="#">DeviceIdentity*</a>		
<a href="#">ListDeviceIdentities</a>	Grants permission to retrieve a list of device identities	List			

## Resource types defined by AWS Management Console Mobile App

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">DeviceIdentity</a>	arn:\${Partition}:consoleapp::\${Account}:device/\${DeviceId}/identity/\${IdentityId}	

## Condition keys for AWS Management Console Mobile App

Console Mobile App has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Consolidated Billing

AWS Consolidated Billing (service prefix: consolidatedbilling) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Consolidated Billing](#)
- [Resource types defined by AWS Consolidated Billing](#)
- [Condition keys for AWS Consolidated Billing](#)

## Actions defined by AWS Consolidated Billing

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountBillingRole</a> [permission only]	Grants permission to get account role (Payer, Linked, Regular)	Read			
<a href="#">ListLinkedAccounts</a> [permission only]	Grants permission to get list of member/linked accounts	List			

## Resource types defined by AWS Consolidated Billing

AWS Consolidated Billing does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Consolidated Billing, specify "Resource": "\*" in your policy.

## Condition keys for AWS Consolidated Billing

Consolidated Billing has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Control Catalog

AWS Control Catalog (service prefix: `controlcatalog`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Control Catalog](#)
- [Resource types defined by AWS Control Catalog](#)
- [Condition keys for AWS Control Catalog](#)

## Actions defined by AWS Control Catalog

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetControl</a>	Grants permission to return details about a specific control	Read	<a href="#">control*</a>		
<a href="#">ListCommonControls</a>	Grants permission to return a paginated list of common controls from the AWS Control Catalog	List			
<a href="#">ListControlMappings</a>	Grants permission to return a paginated list of control mappings from the AWS Control Catalog	List			
<a href="#">ListControls</a>	Grants permission to return a paginated list of all available controls in the AWS Control Catalog library	List	<a href="#">control*</a>		
<a href="#">ListDomains</a>	Grants permission to return a paginated list of domains from the AWS Control Catalog	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListObjectives</a>	Grants permission to return a paginated list of objectives from the AWS Control Catalog	List			

## Resource types defined by AWS Control Catalog

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">common-control</a>	arn:\${Partition}:controlcatalog:::common-control/\${CommonControlId}	
<a href="#">control</a>	arn:\${Partition}:controlcatalog:::control/\${ControlId}	
<a href="#">domain</a>	arn:\${Partition}:controlcatalog:::domain/\${DomainId}	
<a href="#">objective</a>	arn:\${Partition}:controlcatalog:::objective/\${ObjectiveId}	

## Condition keys for AWS Control Catalog

Control Catalog has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Control Tower

AWS Control Tower (service prefix: `controltower`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Control Tower](#)
- [Resource types defined by AWS Control Tower](#)
- [Condition keys for AWS Control Tower](#)

## Actions defined by AWS Control Tower

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLandingZone</a>	Grants permission to create a landing zone	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	controltower:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateManagedAccount</a> [permission only]	Grants permission to create an account managed by AWS Control Tower	Write			
<a href="#">DeleteLandingZone</a>	Grants permission to delete AWS Control Tower landing zone	Write	<a href="#">LandingZone*</a>		
<a href="#">DeregisterManagedAccount</a> [permission only]	Grants permission to deregister an account created through the account factory from AWS Control Tower	Write			
<a href="#">DeregisterOrganizationalUnit</a> [permission only]	Grants permission to deregister an organizational unit from AWS Control Tower management	Write			
<a href="#">DescribeAccountFactoryConfig</a> [permission only]	Grants permission to describe the current account factory configuration	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCoreService</a> [permission only]	Grants permission to describe resources managed by core accounts in AWS Control Tower	Read			
<a href="#">DescribeGuardrail</a> [permission only]	Grants permission to describe a guardrail	Read			
<a href="#">DescribeGuardrailForTarget</a> [permission only]	Grants permission to describe a guardrail for a organizational unit	Read			
<a href="#">DescribeLandingZoneConfiguration</a> [permission only]	Grants permission to describe the current Landing Zone configuration	Read			
<a href="#">DescribeManagedAccount</a> [permission only]	Grants permission to describe an account created through account factory	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeManagedOrganizationUnit</a> [permission only]	Grants permission to describe an AWS Organizations organizational unit managed by AWS Control Tower	Read			
<a href="#">DescribeRegisterOrganizationalUnitOperation</a> [permission only]	Grants permission to describe a Register Organizational Unit Operation	Read			
<a href="#">DescribeSingleSignOn</a> [permission only]	Grants permission to describe the current AWS Control Tower IAM Identity Center configuration	Read			
<a href="#">DisableBaseline</a>	Grants permission to disable a Baseline on a target	Write	<a href="#">EnabledBaseline*</a>		
<a href="#">DisableControl</a>	Grants permission to remove a control from an organizational unit	Write	<a href="#">EnabledControl*</a>		
<a href="#">DisableGuardrail</a> [permission only]	Grants permission to disable a guardrail from an organizational unit	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableBaseline</a>	Grants permission to enable a Baseline on a target	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	controltower:TagResource
<a href="#">EnableControl</a>	Grants permission to activate a control for an organizational unit	Write	<a href="#">EnabledControl</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	controltower:TagResource
<a href="#">EnableGuardrail</a> [permission only]	Grants permission to enable a guardrail to an organizational unit	Write			
<a href="#">GetAccountInfo</a> [permission only]	Grants permission to describe an account email and validate that it exists	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAvailableUpdates</a> [permission only]	Grants permission to list available updates for the current AWS Control Tower deployment	Read			
<a href="#">GetBaseline</a>	Grants permission to get Baseline details	Read	<a href="#">Baseline*</a>		
<a href="#">GetBaselineOperation</a>	Grants permission to get the current status of a particular Baseline operation	Read			
<a href="#">GetControlOperation</a>	Grants permission to get the current status of a particular EnabledControl or DisableControl operation	Read			
<a href="#">GetEnabledBaseline</a>	Grants permission to get an enabled Baseline	Read	<a href="#">EnabledBaseline*</a>		
<a href="#">GetEnabledControl</a>	Grants permission to get an enabled control from an organizational unit	Read	<a href="#">EnabledControl*</a>		
<a href="#">GetGuardrailComplianceStatus</a> [permission only]	Grants permission to get the current compliance status of a guardrail	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHomeRegion</a> [permission only]	Grants permission to get the home region of the AWS Control Tower setup	Read			
<a href="#">GetLandingZone</a>	Grants permission to get the current status of the landing zone setup	Read	<a href="#">LandingZone*</a>		
<a href="#">GetLandingZoneDriftStatus</a>	Grants permission to get the current landing zone drift status	Read			
<a href="#">GetLandingZoneOperation</a>	Grants permission to get the current status of a particular landing zone operation	Read			
<a href="#">GetLandingZoneStatus</a> [permission only]	Grants permission to get the current status of the landing zone setup	Read			
<a href="#">ListBaselines</a>	Grants permission to list Baselines	List			
<a href="#">ListControlOperations</a>	Grants permission to list all control operations	List			
<a href="#">ListDirectoryGroups</a> [permission only]	Grants permission to list the current directory groups available through IAM Identity Center	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDriftDetails</a>	Grants permission to list occurrences of drift in AWS Control Tower	Read			
<a href="#">ListEnabledBaselines</a>	Grants permission to list enabled Baselines	List			
<a href="#">ListEnabledControls</a>	Grants permission to list all enabled controls in a specified organizational unit	List			
<a href="#">ListEnabledGuardrails</a> [permission only]	Grants permission to list currently enabled guardrails	List			
<a href="#">ListExtendedGovernancePrecheckDetails</a> [permission only]	Grants permission to list Precheck details for an Organizational Unit	List			
<a href="#">ListExternalConfigRuleCompliance</a>	Grants permission to list the compliance of external AWS Config rules	Read			
<a href="#">ListGuardrailViolations</a> [permission only]	Grants permission to list existing guardrail violations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGuardrails</a> [permission only]	Grants permission to list all available guardrails	List			
<a href="#">ListGuardrailsForTarget</a> [permission only]	Grants permission to list guardrails and their current state for a organizational unit	List			
<a href="#">ListLandingZoneOperations</a>	Grants permission to list all landing zone operations	List			
<a href="#">ListLandingZones</a>	Grants permission to list all landing zones	List			
<a href="#">ListManagedAccounts</a> [permission only]	Grants permission to list accounts managed through AWS Control Tower	List			
<a href="#">ListManagedAccountsForGuardrails</a> [permission only]	Grants permission to list managed accounts with a specified guardrail applied	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListManagedAccountsForParent</a> [permission only]	Grants permission to list managed accounts under an organizational unit	List			
<a href="#">ListManagedOrganizationalUnits</a> [permission only]	Grants permission to list organizational units managed by AWS Control Tower	List			
<a href="#">ListManagedOrganizationalUnitsForGuardrail</a> [permission only]	Grants permission to list managed organizational units that have a specified guardrail applied	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">EnabledBaseline</a>		
			<a href="#">EnabledControl</a>		
			<a href="#">LandingZone</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ManageOrganizationUnit</a> [permission only]	Grants permission to set up an organizational unit to be managed by AWS Control Tower	Write			
<a href="#">PerformPreLaunchChecks</a> [permission only]	Grants permission to perform validations in an account	Read			
<a href="#">ResetEnabledBaseline</a>	Grants permission to reset an enabled Baseline	Write	<a href="#">EnabledBaseline*</a>		
<a href="#">ResetEnabledControl</a>	Grants permission to reset an enabled control for an organizational unit	Write	<a href="#">EnabledControl*</a>		
<a href="#">ResetLandingZone</a>	Grants permission to reset a landing zone	Write	<a href="#">LandingZone*</a>		
<a href="#">SetupLandingZone</a> [permission only]	Grants permission to set up or update AWS Control Tower landing zone	Write			
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">EnabledBaseline</a> <a href="#">EnabledControl</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">LandingZone</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">EnabledBaseline</a>		
			<a href="#">EnabledControl</a>		
			<a href="#">LandingZone</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountFactoryConfig</a> [permission only]	Grants permission to update the account factory configuration	Write			
<a href="#">UpdateEnabledBaseline</a>	Grants permission to update an enabled Baseline	Write	<a href="#">EnabledBaseline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnabledControl</a>	Grants permission to update an enabled control for an organizational unit	Write	<a href="#">EnabledControl*</a>		
<a href="#">UpdateLandingZone</a>	Grants permission to update a landing zone	Write	<a href="#">LandingZone*</a>		

## Resource types defined by AWS Control Tower

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">EnabledControl</a>	arn:\${Partition}:controltower:\${Region}:\${Account}:enabledcontrol/\${EnabledControlId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Baseline</a>	arn:\${Partition}:controltower:\${Region}::baseline/\${BaselineId}	
<a href="#">EnabledBaseline</a>	arn:\${Partition}:controltower:\${Region}:\${Account}:enabledbaseline/\${EnabledBaselineId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">LandingZone</a>	arn:\${Partition}:controltower:\${Region}:\${Account}:landingzone/\${LandingZoneId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Control Tower

AWS Control Tower defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Cost and Usage Report

AWS Cost and Usage Report (service prefix: `cur`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Cost and Usage Report](#)
- [Resource types defined by AWS Cost and Usage Report](#)
- [Condition keys for AWS Cost and Usage Report](#)



## Actions defined by AWS Cost and Usage Report

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteReportDefinition</a>	Grants permission to delete Cost and Usage Report Definition	Write	<a href="#">cur*</a>		
<a href="#">DescribeReportDefinitions</a>	Grants permission to get Cost and Usage Report Definitions	Read			
<a href="#">GetClassicReport</a> [permission only]	Grants permission to get Bills CSV report	Read			
<a href="#">GetClassicReportPreferences</a> [permission only]	Grants permission to get the classic report enablement status for Usage Reports	Read			
<a href="#">GetUsageReport</a> [permission only]	Grants permission to get list of AWS services, usage type and operation for the Usage Report workflow. Allows or denies download of usage reports too	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">cur*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyReportDefinition</a>	Grants permission to modify Cost and Usage Report Definition	Write	<a href="#">cur*</a>		
<a href="#">PutClassicReportPreferences</a> [permission only]	Grants permission to enable classic reports	Write			
<a href="#">PutReportDefinition</a>	Grants permission to write Cost and Usage Report Definition	Write	<a href="#">cur*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">cur*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">cur*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ValidateReportDestination</a> [permission only]	Grants permission to validate if the s3 bucket exists with appropriate permissions for CUR delivery	Read			

## Resource types defined by AWS Cost and Usage Report

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cur</a>	arn:\${Partition}:cur:\${Region}:\${Account}:definition/\${ReportName}	

## Condition keys for AWS Cost and Usage Report

AWS Cost and Usage Report defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Cost Explorer Service

AWS Cost Explorer Service (service prefix: ce) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Cost Explorer Service](#)
- [Resource types defined by AWS Cost Explorer Service](#)
- [Condition keys for AWS Cost Explorer Service](#)

## Actions defined by AWS Cost Explorer Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAnomalyMonitor</a>	Grants permission to create a new Anomaly Monitor	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAnomalySubscription</a>	Grants permission to create a new Anomaly Subscription	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateCostCategoryDefinition</a>	Grants permission to create a new Cost Category with the requested name and rules	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateNotificationSubscription</a> [permission only]	Grants permission to create Reservation expiration alerts	Write			
<a href="#">CreateReport</a> [permission only]	Grants permission to create Cost Explorer Reports	Write			
<a href="#">DeleteAnomalyMonitor</a>	Grants permission to delete an Anomaly Monitor	Write	<a href="#">anomalymonitor*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAnomalySubscription</a>	Grants permission to delete an Anomaly Subscription	Write	<a href="#">anomalysubscription*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteCostCategoryDefinition</a>	Grants permission to delete a Cost Category	Write	<a href="#">costcategory*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteNotificationSubscription</a> [permission only]	Grants permission to delete Reservation expiration alerts	Write			
<a href="#">DeleteReport</a> [permission only]	Grants permission to delete Cost Explorer Reports	Write			
<a href="#">DescribeCostCategoryDefinition</a>	Grants permission to retrieve descriptions such as the name, ARN, rules, definition, and effective dates of a Cost Category	Read	<a href="#">costcategory*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeNotificationSubscriptions</a> [permission only]	Grants permission to view Reservation expiration alerts	Read			
<a href="#">DescribeReport</a> [permission only]	Grants permission to view Cost Explorer Reports page	Read			
<a href="#">GetAnomalies</a>	Grants permission to retrieve anomalies	Read	<a href="#">anomalymonitor*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAnomalyMonitors</a>	Grants permission to query Anomaly Monitors	Read	<a href="#">anomalymonitor*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAnomalySubscriptions</a>	Grants permission to query Anomaly Subscriptions	Read	<a href="#">anomalysubscription*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetApproximateUsageRecords</a>	Grants permission to retrieve approximate usage record count for the chosen resource, level, and hourly granularity preferences, derived from the past month's usage	Read			
<a href="#">GetCommitmentPurchaseAnalysis</a>	Grants permission to retrieve the commitment purchase analysis for your account	Read			
<a href="#">GetConsoleActionSetEnforced</a> [permission only]	Grants permission to view whether existing or fine-grained IAM actions are being used to control authorization to Billing, Cost Management, and Account consoles	Read			
<a href="#">GetCostAndUsage</a>	Grants permission to retrieve the cost and usage metrics for your account	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCostAndUsageComparisons</a>	Grants permission to retrieve the cost and usage comparisons for your account	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetCostAndUsageWithResources</a>	Grants permission to retrieve the cost and usage metrics with resources for your account	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetCostCategories</a>	Grants permission to query Cost Category names and values for a specified time period	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetCostComparisonDrivers</a>	Grants permission to retrieve the cost drivers for your account	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCostForecast</a>	Grants permission to retrieve a cost forecast for a forecast time period	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDimensionValues</a>	Grants permission to retrieve all available filter values for a filter for a period of time	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetPreferences</a> [permission only]	Grants permission to view Cost Explorer Preferences page	Read			
<a href="#">GetReservationCoverage</a>	Grants permission to retrieve the reservation coverage for your account	Read			
<a href="#">GetReservationPurchaseRecommendation</a>	Grants permission to retrieve the reservation recommendations for your account	Read			
<a href="#">GetReservationUtilization</a>	Grants permission to retrieve the reservation utilization for your account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRightsizingRecommendation</a>	Grants permission to retrieve the rightsizing recommendations for your account	Read			
<a href="#">GetSavingsPlanPurchaseRecommendationDetails</a>	Grants permission to retrieve the Savings Plan recommendation details for your account	Read			
<a href="#">GetSavingsPlansCoverage</a>	Grants permission to retrieve the Savings Plans coverage for your account	Read			
<a href="#">GetSavingsPlansPurchaseRecommendation</a>	Grants permission to retrieve the Savings Plans recommendations for your account	Read			
<a href="#">GetSavingsPlansUtilization</a>	Grants permission to retrieve the Savings Plans utilization for your account	Read			
<a href="#">GetSavingsPlansUtilizationDetails</a>	Grants permission to retrieve the Savings Plans utilization details for your account	Read			
<a href="#">GetTags</a>	Grants permission to query tags for a specified time period	Read	<a href="#">billingview</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetUsageForecast</a>	Grants permission to retrieve a usage forecast for a forecast time period	Read	<a href="#">billingview</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCommitmentPurchaseAnalyses</a>	Grants permission to retrieve a list of your historical commitment purchase analyses	List			
<a href="#">ListCostAllocationTagBackfillHistory</a>	Grants permission to list Cost Allocation Tag backfill history	List			
<a href="#">ListCostAllocationTags</a>	Grants permission to list Cost Allocation Tags	List			
<a href="#">ListCostCategoryDefinitions</a>	Grants permission to retrieve names, ARN, and effective dates for all Cost Categories	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCostCategoryResourceAssociations</a>	Grants permission to retrieve resource associations of all Cost Categories defined in the account	List			
<a href="#">ListSavingsPlansPurchaseRecommendationGeneration</a>	Grants permission to retrieve a list of your historical recommendation generations	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Cost Explorer resource	Read	<a href="#">anomalymonitor</a>  <a href="#">anomalysubscription</a>  <a href="#">costcategory</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ProvideAnomalyFeedback</a>	Grants permission to provide feedback on detected anomalies	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartCommitmentPurchaseAnalysis</a>	Grants permission to request a commitment purchase analysis	Write			
<a href="#">StartCostAllocationTagBackfill</a>	Grants permission to request a Cost Allocation Tag backfill	Write			
<a href="#">StartSavingsPlansPurchaseRecommendationGeneration</a>	Grants permission to request a Savings Plans recommendation generation	Write			
<a href="#">TagResource</a>	Grants permission to tag a Cost Explorer resource	Tagging	<a href="#">anomalymonitor</a> <a href="#">anomalydescription</a> <a href="#">costcategory</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a Cost Explorer resource	Tagging	<a href="#">anomalymonitor</a> <a href="#">anomalydescription</a> <a href="#">costcategory</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAnomalyMonitor</a>	Grants permission to update an existing Anomaly Monitor	Write	<a href="#">anomalymonitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAnomalySubscription</a>	Grants permission to update an existing Anomaly Subscription	Write	<a href="#">anomalysubscription*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateConsolidationSetEnforcementSetEnforcement</a> [permission only]	Grants permission to change whether existing or fine-grained IAM actions will be used to control authorization to Billing, Cost Management, and Account consoles	Write			
<a href="#">UpdateCostAllocationTagsStatus</a>	Grants permission to update existing Cost Allocation Tags status	Write			
<a href="#">UpdateCostCategoryDefinition</a>	Grants permission to update an existing Cost Category	Write	<a href="#">costcategory*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotificationSubscription</a> [permission only]	Grants permission to update Reservation expiration alerts	Write			
<a href="#">UpdatePreferences</a> [permission only]	Grants permission to edit Cost Explorer Preferences page	Write			
<a href="#">UpdateReport</a> [permission only]	Grants permission to update Cost Explorer Reports	Write			

## Resource types defined by AWS Cost Explorer Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">anomalysubscription</a>	arn:\${Partition}:ce::\${Account}:anomalysubscription/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">anomalymonitor</a>	arn:\${Partition}:ce::\${Account}:anomalymonitor/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">costcategory</a>	arn:\${Partition}:ce::\${Account}:costcategory/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">billingview</a>	arn:\${Partition}:billing::\${Account}:billingview/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Cost Explorer Service

AWS Cost Explorer Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Cost Optimization Hub

AWS Cost Optimization Hub (service prefix: cost-optimization-hub) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Cost Optimization Hub](#)
- [Resource types defined by AWS Cost Optimization Hub](#)
- [Condition keys for AWS Cost Optimization Hub](#)

## Actions defined by AWS Cost Optimization Hub

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPreferences</a>	Grants permission to get preferences	Read			
<a href="#">GetRecommendation</a>	Grants permission to get resource configuration and estimated cost impact for a recommendation	Read			
<a href="#">ListEfficiencyMetrics</a>	Grants permission to list efficiency metric scores by group	List			
<a href="#">ListEnrollmentStatuses</a>	Grants permission to list enrollment statuses for the specified account or all members under a management account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecommendationSummaries</a>	Grants permission to list recommendation summaries by group	List			cost-optimization-hub:GetRecommendation
<a href="#">ListRecommendations</a>	Grants permission to list summary view of recommendations	List			cost-optimization-hub:GetRecommendation
<a href="#">UpdateEnrollmentStatus</a>	Grants permission to update the enrollment status	Write			
<a href="#">UpdatePreferences</a>	Grants permission to update preferences	Write			

## Resource types defined by AWS Cost Optimization Hub

AWS Cost Optimization Hub does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Cost Optimization Hub, specify "Resource": "\*" in your policy.

## Condition keys for AWS Cost Optimization Hub

Cost Optimization Hub has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).



# Actions, resources, and condition keys for AWS Customer Verification Service

AWS Customer Verification Service (service prefix: `customer-verification`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Customer Verification Service](#)
- [Resource types defined by AWS Customer Verification Service](#)
- [Condition keys for AWS Customer Verification Service](#)

## Actions defined by AWS Customer Verification Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action

with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomerVerificationDetails</a> [permission only]	Grants permission to create customer verification data	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUploadUrls</a> [permission only]	Grants permission to create upload URLs	Write			
<a href="#">GetCustomerVerificationDetails</a> [permission only]	Grants permission to get customer verification data	Read			
<a href="#">GetCustomerVerificationEligibility</a> [permission only]	Grants permission to get customer verification eligibility	Read			
<a href="#">UpdateCustomerVerificationDetails</a> [permission only]	Grants permission to update customer verification data	Write			

## Resource types defined by AWS Customer Verification Service

AWS Customer Verification Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Customer Verification Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Customer Verification Service

Customer Verification Service has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Data Exchange

AWS Data Exchange (service prefix: `dataexchange`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Data Exchange](#)
- [Resource types defined by AWS Data Exchange](#)
- [Condition keys for AWS Data Exchange](#)

## Actions defined by AWS Data Exchange

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptDataGrant</a>	Grants permission to accept a data grant	Write	<a href="#">data-grants*</a>		
<a href="#">CancelJob</a>	Grants permission to cancel a job	Write	<a href="#">jobs*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAsset</a> [permission only]	Grants permission to create an asset (for example, in a Job)	Write	<a href="#">revisions</a> * -		
<a href="#">CreateDataGrant</a>	Grants permission to create a data grant	Write	<a href="#">data-grants*</a>		dataexchange:PublishToDataGrant
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataSet</a>	Grants permission to create a data set	Write	<a href="#">data-sets</a> * -		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateEventAction</a>	Grants permission to create an event action	Write	<a href="#">event-actions*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateJob</a>	Grants permission to create a job to import or export assets	Write	<a href="#">jobs*</a>		
				<a href="#">dataexchange:JobType</a>	
<a href="#">CreateRevision</a>	Grants permission to create a revision	Write	<a href="#">data-sets*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAsset</a>	Grants permission to delete an asset	Write	<a href="#">assets*</a>		
<a href="#">DeleteDataGrant</a>	Grants permission to delete a data grant	Write	<a href="#">data-grants*</a>		
<a href="#">DeleteDataSet</a>	Grants permission to delete a data set	Write	<a href="#">data-sets*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">entitled-data-sets</a> *		
<a href="#">DeleteEventAction</a>	Grants permission to delete an event action	Write	<a href="#">event-actions</a> *		
<a href="#">DeleteRevision</a>	Grants permission to delete a revision	Write	<a href="#">revisions</a> *		
<a href="#">GetAsset</a>	Grants permission to get information about an asset and to export it (for example, in a Job)	Read	<a href="#">assets</a> *		
			<a href="#">entitled-assets</a> *		
<a href="#">GetDataGrant</a>	Grants permission to get a data grant	Read	<a href="#">data-grants</a> *		
<a href="#">GetDataSet</a>	Grants permission to get information about a data set	Read	<a href="#">data-sets</a> *		
			<a href="#">entitled-data-sets</a> *		
<a href="#">GetEventAction</a>	Grants permission to get an event action	Read	<a href="#">event-actions</a> *		
<a href="#">GetJob</a>	Grants permission to get information about a job	Read	<a href="#">jobs</a> *		
<a href="#">GetReceivedDataGrant</a>	Grants permission to get a received data grant	Read	<a href="#">data-grants</a> *		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRevision</a>	Grants permission to get information about a revision	Read	<a href="#">entitled-revisions</a> * -		
			<a href="#">revisions</a> * -		
<a href="#">ListDataGrants</a>	Grants permission to list data grants for the account	List			
<a href="#">ListDataSetRevisions</a>	Grants permission to list the revisions of a data set	List	<a href="#">data-sets</a> * -		
			<a href="#">entitled-data-sets</a> * -		
<a href="#">ListDataSets</a>	Grants permission to list data sets for the account	List			
<a href="#">ListEventActions</a>	Grants permission to list event actions for the account	List			
<a href="#">ListJobs</a>	Grants permission to list jobs for the account	List			
<a href="#">ListReceivedDataGrants</a>	Grants permission to list received data grants for the account	List			
<a href="#">ListRevisionAssets</a>	Grants permission to get list the assets of a revision	List	<a href="#">entitled-revisions</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">revisions</a> * -		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that you associated with the specified resource	List	<a href="#">data-grants</a>		
			<a href="#">data-sets</a>		
			<a href="#">event-actions</a>		
			<a href="#">revisions</a>		
<a href="#">PublishDataSet</a> [permission only]	Grants permission to publish a data set to a product	Write	<a href="#">data-sets</a> * -		
<a href="#">PublishToDataGrant</a> [permission only]	Grants permission to publish a data set to a data grant	Write	<a href="#">data-sets</a> * -	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">RevokeRevision</a>	Grants permission to revoke subscriber access to a revision	Write	<a href="#">revisions</a> * -		
<a href="#">SendApiAsset</a>	Grants permission to send a request to an API asset	Write	<a href="#">assets*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendDataSetNotification</a>	Grants permission to send a notification to subscribers of a data set	Write	<a href="#">entitled-assets*</a> <a href="#">data-sets*</a>		
<a href="#">StartJob</a>	Grants permission to start a job	Write	<a href="#">jobs*</a>		dataexchange:CreateAsset dataexchange:DeleteDataSet dataexchange:GetAsset dataexchange:GetDataSet dataexchange:GetRevision dataexchange:PublishDataSet redshift:AuthorizeDataShare

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add one or more tags to a specified resource	Tagging	<a href="#">data-grants</a>  <a href="#">data-sets</a>  <a href="#">event-actions</a>  <a href="#">revisions</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a specified resource	Tagging	<a href="#">data-grants</a>  <a href="#">data-sets</a>  <a href="#">event-actions</a>  <a href="#">revisions</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAsset</a>	Grants permission to get update information about an asset	Write	<a href="#">assets*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataSet</a>	Grants permission to update information about a data set	Write	<a href="#">data-sets</a> *		
<a href="#">UpdateEventAction</a>	Grants permission to update information for an event action	Write	<a href="#">event-actions*</a>		
<a href="#">UpdateRevision</a>	Grants permission to update information about a revision	Write	<a href="#">revisions</a> *		dataexchange:PublishDataSet  dataexchange:PublishToDataGrant

## Resource types defined by AWS Data Exchange

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">jobs</a>	arn:\${Partition}:dataexchange:\${Region}:\${Account}:jobs/\${JobId}	<a href="#">dataexchange:JobType</a>

Resource types	ARN	Condition keys
<a href="#">data-sets</a>	arn:\${Partition}:dataexchange:\${Region}:\${Account}:data-sets/\${DataSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">entitled-data-sets</a>	arn:\${Partition}:dataexchange:\${Region}::data-sets/\${DataSetId}	
<a href="#">revisions</a>	arn:\${Partition}:dataexchange:\${Region}:\${Account}:data-sets/\${DataSetId}/revisions/\${RevisionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">entitled-revisions</a>	arn:\${Partition}:dataexchange:\${Region}::data-sets/\${DataSetId}/revisions/\${RevisionId}	
<a href="#">assets</a>	arn:\${Partition}:dataexchange:\${Region}:\${Account}:data-sets/\${DataSetId}/revisions/\${RevisionId}/assets/\${AssetId}	
<a href="#">entitled-assets</a>	arn:\${Partition}:dataexchange:\${Region}::data-sets/\${DataSetId}/revisions/\${RevisionId}/assets/\${AssetId}	
<a href="#">event-actions</a>	arn:\${Partition}:dataexchange:\${Region}:\${Account}:event-actions/\${EventActionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">data-grants</a>	arn:\${Partition}:dataexchange:\${Region}:\${Account}:data-grants/\${DataGrantId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Data Exchange

AWS Data Exchange defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the mandatory tags in the create request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the create request	ArrayOfString
<a href="#">dataexchange:JobType</a>	Filters access by the specified job type	String

## Actions, resources, and condition keys for Amazon Data Lifecycle Manager

Amazon Data Lifecycle Manager (service prefix: `d1m`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Data Lifecycle Manager](#)
- [Resource types defined by Amazon Data Lifecycle Manager](#)
- [Condition keys for Amazon Data Lifecycle Manager](#)

## Actions defined by Amazon Data Lifecycle Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLifecyclePolicy</a>	Grants permission to create a data lifecycle policy to manage the scheduled creation and retention of Amazon EBS snapshots. You may have up to 100 policies	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteLifecyclePolicy</a>	Grants permission to delete an existing data lifecycle policy. In addition, this action halts the creation and deletion of snapshots that the policy specified. Existing snapshots are not affected	Write	<a href="#">policy*</a>		
<a href="#">GetLifecyclePolicies</a>	Grants permission to returns a list of summary descriptions of data lifecycle policies	List			
<a href="#">GetLifecyclePolicy</a>	Grants permission to return a complete description of a single data lifecycle policy	Read	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list the tags associated with a resource	Read	<a href="#">policy*</a>		
<a href="#">TagResource</a>	Grants permission to add or update tags of a resource	Tagging	<a href="#">policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags associated with a resource	Tagging	<a href="#">policy*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateLifecyclePolicy</a>	Grants permission to update an existing data lifecycle policy	Write	<a href="#">policy*</a>		

## Resource types defined by Amazon Data Lifecycle Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">policy</a>	arn:\${Partition}:dlm:\${Region}:\${Account}:policy/\${ResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Data Lifecycle Manager

Amazon Data Lifecycle Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Data Pipeline

AWS Data Pipeline (service prefix: datapipeline) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Data Pipeline](#)
- [Resource types defined by AWS Data Pipeline](#)
- [Condition keys for AWS Data Pipeline](#)

## Actions defined by AWS Data Pipeline

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivatePipeline</a>	Grants permission to validate the specified pipeline and starts processing pipeline tasks. If the pipeline does not pass validation, activation fails	Write	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">datapipeline:workergroup</a>	
<a href="#">AddTags</a>	Grants permission to add or modify tags for the specified pipeline	Tagging	<a href="#">pipeline*</a>	<a href="#">datapipeline:Pipeline</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePipeline</a>	Grants permission to create a new, empty pipeline	Write		<a href="#">ineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	datapipeline:AddTags
<a href="#">DeactivatePipeline</a>	Grants permission to Deactivate the specified running pipeline	Write	<a href="#">pipeline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">datapipeline:workerGroup</a>	
<a href="#">DeletePipeline</a>	Grants permission to delete a pipeline, its pipeline definition, and its run history	Write	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a>	
<a href="#">DescribeObjects</a>	Grants permission to get the object definitions for a set of objects associated with the pipeline	Read	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePipelines</a>	Grants permission to retrieve metadata about one or more pipelines	Read	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a>	
<a href="#">EvaluateExpression</a>	Grants permission to task runners to call EvaluateExpression, to evaluate a string in the context of the specified object	Read	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a>	
<a href="#">GetAccountLimits</a> [permission only]	Grants permission to call GetAccountLimits	List			
<a href="#">GetPipelineDefinition</a>	Grants permission to get the definition of the specified pipeline	Read	<a href="#">pipeline*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">datapipeline:workerGroup</a>	
<a href="#">ListPipelines</a>	Grants permission to list the pipeline identifiers for all active pipelines that you have permission to access	List			
<a href="#">PollForTask</a>	Grants permission to task runners to call PollForTask, to receive a task to perform from AWS Data Pipeline	Write		<a href="#">datapipeline:workerGroup</a>	
<a href="#">PutAccountLimits</a> [permission only]	Grants permission to call PutAccountLimits	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutPipelineDefinition</a>	Grants permission to add tasks, schedules, and preconditions to the specified pipeline	Write	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">datapipeline:workerGroup</a>	
<a href="#">QueryObjects</a>	Grants permission to query the specified pipeline for the names of objects that match the specified set of conditions	Read	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a>	
<a href="#">RemoveTags</a>	Grants permission to remove existing tags from the specified pipeline	Tagging	<a href="#">pipeline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">ReportTaskProgress</a>	Grants permission to task runners to call ReportTaskProgress, when they are assigned a task to acknowledge that it has the task	Write	<a href="#">pipeline*</a>		
<a href="#">ReportTaskRunnerHeartbeat</a>	Grants permission to task runners to call ReportTaskRunnerHeartbeat every 15 minutes to indicate that they are operational	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetStatus</a>	Grants permission to requests that the status of the specified physical or logical pipeline objects be updated in the specified pipeline	Write	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a>	
<a href="#">SetTaskStatus</a>	Grants permission to task runners to call SetTaskStatus to notify AWS Data Pipeline that a task is completed and provide information about the final status	Write	<a href="#">pipeline*</a>		
<a href="#">ValidatePipelineDefinition</a>	Grants permission to validate the specified pipeline definition to ensure that it is well formed and can be run without error	Read	<a href="#">pipeline*</a>	<a href="#">datapipeline:PipelineCreator</a> <a href="#">datapipeline:Tag/\${TagKey}</a> <a href="#">datapipeline:workerGroup</a>	

## Resource types defined by AWS Data Pipeline

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">pipeline</a>	arn:\${Partition}:datapipeline:\${Region}:\${Account}:pipeline/\${PipelineId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Data Pipeline

AWS Data Pipeline defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">datapipeline:PipelineCreator</a>	Filters access by the IAM user that created the pipeline	ArrayOfString
<a href="#">datapipeline:Tag/\${TagKey}</a>	Filters access by customer-specified key/value pair that can be attached to a resource	String
<a href="#">datapipeline:workerGroup</a>	Filters access by the name of a worker group for which a Task Runner retrieves work	ArrayOfString

## Actions, resources, and condition keys for AWS Database Migration Service

AWS Database Migration Service (service prefix: `dms`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Database Migration Service](#)
- [Resource types defined by AWS Database Migration Service](#)
- [Condition keys for AWS Database Migration Service](#)

## Actions defined by AWS Database Migration Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToResource</a>	Grants permission to add metadata tags to DMS resources, including replication instances, endpoints, security groups, and migration tasks	Tagging	<a href="#">Certificate</a>  <a href="#">DataMigration</a>  <a href="#">DataProvider</a>  <a href="#">Endpoint</a>  <a href="#">EventSubscription</a>  <a href="#">InstanceProfile</a>  <a href="#">MigrationProject</a>  <a href="#">ReplicationConfig</a>  <a href="#">ReplicationInstance</a>  <a href="#">ReplicationSubnetGroup</a>  <a href="#">ReplicationTask</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ReplicationTaskAssessmentRun</a>		
			<a href="#">ReplicationTaskIndividualAssessment</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">dms:req-tag/\${TagKey}</a>	
<a href="#">ApplyPendingMaintenanceAction</a>	Grants permission to apply a pending maintenance action to a resource (for example, to a replication instance)	Write	<a href="#">ReplicationInstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateExtensionPack</a>	Grants permission to associate a extension pack	Write	<a href="#">MigrationProject*</a>		
<a href="#">BatchStartRecommendations</a>	Grants permission to start the analysis of up to 20 source databases to recommend target engines for each source database	Write			
<a href="#">CancelMetadataModelConversion</a>	Grants permission to cancel a single metadata model conversion operation that was started with StartMetadataModelConversion	Write	<a href="#">MigrationProject*</a>		
<a href="#">CancelMetadataModelCreation</a>	Grants permission to cancel a single metadata model creation operation that was started with StartMetadataModelCreation	Write	<a href="#">MigrationProject*</a>		
<a href="#">CancelReplicationTaskAssessmentRun</a>	Grants permission to cancel a single premigration assessment run	Write	<a href="#">ReplicationTaskAssessmentRun*</a>		
<a href="#">CreateDatabaseMigration</a>	Grants permission to create a database migration using the provided settings	Write	<a href="#">MigrationProject*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">dms:req-tag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataProvider</a>	Grants permission to create an data provider using the provided settings	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEndpoint</a>	Grants permission to create an endpoint using the provided settings	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEventSubscription</a>	Grants permission to create an AWS DMS event notification subscription	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	
<a href="#">CreateFleetAdvisorCollector</a>	Grants permission to create a Fleet Advisor collector using the specified parameters	Write			iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInstanceProfile</a>	Grants permission to create an instance profile using the provided settings	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	iam:PassRole
<a href="#">CreateMigrationProject</a>	Grants permission to create an migration project using the provided settings	Write	<a href="#">DataProvider*</a>  <a href="#">InstanceProfile*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">dms:req-tag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOutboundIntegration</a> [permission only]	Grants permission to DMS to create resources for zero-ETL integrations with self managed databases	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	iam:PassRole
<a href="#">CreateReplicationConfig</a>	Grants permission to create a replication config using the provided settings	Write	<a href="#">Endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/</a> <a href="#">\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReplicationInstance</a>	Grants permission to create a replication instance using the specified parameters	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReplicationSubnetGroup</a>	Grants permission to create a replication subnet group given a list of the subnet IDs in a VPC	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">dms:req-tag/\${TagKey}</a>	
<a href="#">CreateReplicationTask</a>	Grants permission to create a replication task using the specified parameters	Write	<a href="#">Endpoint*</a>  <a href="#">ReplicationInstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">dms:req-tag/\${TagKey}</a>	
<a href="#">DeleteCertificate</a>	Grants permission to delete the specified certificate	Write	<a href="#">Certificate*</a>		
<a href="#">DeleteConnection</a>	Grants permission to delete the specified connection between a replication instance and an endpoint	Write	<a href="#">Endpoint*</a> <a href="#">ReplicationInstance*</a>		
<a href="#">DeleteDataMigration</a>	Grants permission to delete the specified database migration	Write	<a href="#">DataMigration*</a>		
<a href="#">DeleteDataProvider</a>	Grants permission to delete the specified data provider	Write	<a href="#">DataProvider*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEndpoint</a>	Grants permission to delete the specified endpoint	Write	<a href="#">Endpoint*</a>		
<a href="#">DeleteEventSubscription</a>	Grants permission to delete an AWS DMS event subscription	Write	<a href="#">EventSubscription*</a>		
<a href="#">DeleteFleetAdvisorCollector</a>	Grants permission to delete the specified Fleet Advisor collector	Write			
<a href="#">DeleteFleetAdvisorDatabases</a>	Grants permission to delete the specified Fleet Advisor databases	Write			
<a href="#">DeleteInstanceProfile</a>	Grants permission to delete the specified instance profile	Write	<a href="#">InstanceProfile*</a>		
<a href="#">DeleteMigrationProject</a>	Grants permission to delete the specified migration project	Write	<a href="#">MigrationProject*</a>		
<a href="#">DeleteReplicationConfig</a>	Grants permission to delete the specified replication config	Write	<a href="#">ReplicationConfig*</a>		
<a href="#">DeleteReplicationInstance</a>	Grants permission to delete the specified replication instance	Write	<a href="#">ReplicationInstance*</a>		
<a href="#">DeleteReplicationSubnetGroup</a>	Grants permission to delete a subnet group	Write	<a href="#">ReplicationSubnetGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteReplicationTask</a>	Grants permission to delete the specified replication task	Write	<a href="#">ReplicationTask*</a>		
<a href="#">DeleteReplicationTaskAssessmentRun</a>	Grants permission to delete the record of a single premigration assessment run	Write	<a href="#">ReplicationTaskAssessmentRun*</a>		
<a href="#">DescribeAccountAttributes</a>	Grants permission to list all of the AWS DMS attributes for a customer account	Read			
<a href="#">DescribeApplicableIndividualAssessments</a>	Grants permission to list individual assessments that you can specify for a new premigration assessment run	Read	<a href="#">ReplicationInstance</a>		
			<a href="#">ReplicationTask</a>		
<a href="#">DescribeCertificates</a>	Grants permission to provide a description of the certificate	Read			
<a href="#">DescribeConnections</a>	Grants permission to describe the status of the connections that have been made between the replication instance and an endpoint	Read			
<a href="#">DescribeConversionConfiguration</a>	Grants permission to return information about DMS Schema Conversion project configuration	Read	<a href="#">MigrationProject*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDatabaseMigrations</a>	Grants permission to return information about database migrations for your account in the specified region	Read			
<a href="#">DescribeEndpointSettings</a>	Grants permission to return the possible endpoint settings available when you create an endpoint for a specific database engine	Read			
<a href="#">DescribeEndpointTypes</a>	Grants permission to return information about the type of endpoints available	Read			
<a href="#">DescribeEndpoints</a>	Grants permission to return information about the endpoints for your account in the current region	Read			
<a href="#">DescribeEngineVersions</a>	Grants permission to return information about the available versions for DMS replication instances	Read			
<a href="#">DescribeEventCategories</a>	Grants permission to list categories for all event source types, or, if specified, for a specified source type	Read			
<a href="#">DescribeEventSubscriptions</a>	Grants permission to list all the event subscriptions for a customer account	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEvents</a>	Grants permission to list events for a given source identifier and source type	Read			
<a href="#">DescribeFleetAdvisorCollectors</a>	Grants permission to return a paginated list of Fleet Advisor collectors in your account based on filter settings	Read			
<a href="#">DescribeFleetAdvisorDatabases</a>	Grants permission to return a paginated list of Fleet Advisor databases in your account based on filter settings	Read			
<a href="#">DescribeFleetAdvisorLsaAnalysis</a>	Grants permission to return a paginated list of descriptions of large-scale assessment (LSA) analyses produced by your Fleet Advisor collectors	Read			
<a href="#">DescribeFleetAdvisorSchemaObjectSummary</a>	Grants permission to return a paginated list of descriptions of schemas discovered by your Fleet Advisor collectors based on filter settings	Read			
<a href="#">DescribeFleetAdvisorSchemas</a>	Grants permission to return a paginated list of schemas discovered by your Fleet Advisor collectors based on filter settings	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMetadataModel</a>	Grants permission to get detailed information about the specified metadata model, including its definition and corresponding converted objects in the target database if applicable	Read	<a href="#">MigrationProject*</a>		
<a href="#">DescribeMetadataModelChildren</a>	Grants permission to get a list of child metadata models for the specified metadata model in the database hierarchy	Read	<a href="#">MigrationProject*</a>		
<a href="#">DescribeMetadataModelCreations</a>	Grants permission to return a paginated list of metadata model creation requests for a migration project	Read	<a href="#">MigrationProject*</a>		
<a href="#">DescribeMetadataModelImports</a>	Grants permission to return information about start metadata model import operations for a migration project	Read	<a href="#">MigrationProject*</a>		
<a href="#">DescribeOrderableReplicationInstances</a>	Grants permission to return information about the replication instance types that can be created in the specified region	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePendingMaintenanceActions</a>	Grants permission to return information about pending maintenance actions	Read			
<a href="#">DescribeRecommendationLimitations</a>	Grants permission to return a paginated list of descriptions of limitations for recommendations of target AWS engines	Read			
<a href="#">DescribeRecommendations</a>	Grants permission to return a paginated list of descriptions of target engine recommendations for your source databases	Read			
<a href="#">DescribeRefreshSchemaStatus</a>	Grants permission to returns the status of the RefreshSchemas operation	Read	<a href="#">Endpoint*</a>		
<a href="#">DescribeReplicationConfigs</a>	Grants permission to describe replication configs	Read			
<a href="#">DescribeReplicationInstanceTaskLogs</a>	Grants permission to return information about the task logs for the specified task	Read	<a href="#">ReplicationInstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeReplicationInstances</a>	Grants permission to return information about replication instances for your account in the current region	Read			
<a href="#">DescribeReplicationSubnetGroups</a>	Grants permission to return information about the replication subnet groups	Read			
<a href="#">DescribeReplicationTableStatistics</a>	Grants permission to describe replication table statistics	Read	<a href="#">ReplicationConfig*</a>		
<a href="#">DescribeReplicationTaskAssessmentResults</a>	Grants permission to return the latest task assessment results from Amazon S3	Read	<a href="#">ReplicationTask</a>		
<a href="#">DescribeReplicationTaskAssessmentRuns</a>	Grants permission to return a paginated list of premigration assessment runs based on filter settings	Read	<a href="#">ReplicationInstance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ReplicationTask</a>		
			<a href="#">ReplicationTaskAssessmentRun</a>		
<a href="#">DescribeReplicationTaskIndividualAssessments</a>	Grants permission to return a paginated list of individual assessments based on filter settings	Read	<a href="#">ReplicationTask</a>		
			<a href="#">ReplicationTaskAssessmentRun</a>		
<a href="#">DescribeReplicationTasks</a>	Grants permission to return information about replication tasks for your account in the current region	Read			
<a href="#">DescribeReplications</a>	Grants permission to describe replications	Read			
<a href="#">DescribeSchemas</a>	Grants permission to return information about the schema for the specified endpoint	Read	<a href="#">Endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTableStatistics</a>	Grants permission to return table statistics on the database migration task, including table name, rows inserted, rows updated, and rows deleted	Read	<a href="#">ReplicationTask*</a>		
<a href="#">ExportMetadataModeAssessment</a>	Grants permission to export the specified metadata model assessment	Write	<a href="#">MigrationProject</a>		
<a href="#">GetTargetSelectionRules</a>	Grants permission to convert source selection rules into their target counterparts for schema conversion operations	Read	<a href="#">MigrationProject*</a>		
<a href="#">ImportCertificate</a>	Grants permission to upload the specified certificate	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">ListDataProviders</a>	Grants permission to list the AWS DMS attributes for a data providers	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListExtensionPacks</a>	Grants permission to list the AWS DMS attributes for a extension packs	Read	<a href="#">MigrationProject</a>		
<a href="#">ListInstanceProfiles</a>	Grants permission to list the AWS DMS attributes for a instance profiles	Read	<a href="#">InstanceProfile</a>		
<a href="#">ListMetadataAssessmentActionItems</a> [permission only]	Grants permission to list the AWS DMS attributes for a metadata model assessment action items. Note. Despite this action requires StartMetadataModelImport, the latter does not currently authorize the described Schema Conversion operation	Read	<a href="#">MigrationProject</a>		dms:StartMetadataModelImport
<a href="#">ListMetadataAssessments</a>	Grants permission to list the AWS DMS attributes for a metadata model assessments	Read	<a href="#">MigrationProject</a>		
<a href="#">ListMetadataConversions</a>	Grants permission to list the AWS DMS attributes for a metadata model conversions	Read	<a href="#">MigrationProject</a>		
<a href="#">ListMetadataExports</a>	Grants permission to list the AWS DMS attributes for a metadata model exports	Read	<a href="#">MigrationProject</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMigrationProjects</a>	Grants permission to list the AWS DMS attributes for a migration projects. Note. Despite this action requires DescribeMigrationProjects and DescribeConversionConfiguration, both required actions do not currently authorize the described Schema Conversion operation	Read	<a href="#">DataProvider</a>  <a href="#">InstanceProfile</a>  <a href="#">MigrationProject</a>		dms:DescribeConversionConfiguration
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for an AWS DMS resource	Read	<a href="#">Certificate</a>  <a href="#">DataMigration</a>  <a href="#">DataProvider</a>  <a href="#">Endpoint</a>  <a href="#">EventSubscription</a>  <a href="#">InstanceProfile</a>  <a href="#">MigrationProject</a>  <a href="#">ReplicationConfig</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ReplicationInstance</a>		
			<a href="#">ReplicationSubnetGroup</a>		
			<a href="#">ReplicationTask</a>		
			<a href="#">ReplicationTaskAssessmentRun</a>		
			<a href="#">ReplicationTaskIndividualAssessment</a>		
<a href="#">ModifyDatabaseMigration</a>	Grants permission to modify the specified database migration	Write	<a href="#">DataMigration*</a>		iam:PassRole
<a href="#">ModifyEndpoint</a>	Grants permission to modify the specified endpoint	Write	<a href="#">Endpoint*</a>		iam:PassRole
			<a href="#">Certificate</a>		
<a href="#">ModifyEventSubscription</a>	Grants permission to modify an existing AWS DMS event notification subscription	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyFleetAdvisorCollector</a> [permission only]	Grants permission to modify the name and description of the specified Fleet Advisor collector	Write			
<a href="#">ModifyFleetAdvisorCollectorStatuses</a> [permission only]	Grants permission to modify the status of the specified Fleet Advisor collector	Write			
<a href="#">ModifyOutboundIntegration</a> [permission only]	Grants permission to DMS to modify resources for zero-ETL integrations with self managed databases	Write			iam:PassRole
<a href="#">ModifyReplicationConfig</a>	Grants permission to modify the specified replication config	Write	<a href="#">ReplicationConfig*</a>		
<a href="#">ModifyReplicationInstance</a>	Grants permission to modify the replication instance to apply new settings	Write	<a href="#">ReplicationInstance*</a>		
<a href="#">ModifyReplicationSubnetGroup</a>	Grants permission to modify the settings for the specified replication subnet group	Write			
<a href="#">ModifyReplicationTask</a>	Grants permission to modify the specified replication task	Write	<a href="#">ReplicationTask*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MoveReplicationTask</a>	Grants permission to move the specified replication task to a different replication instance	Write	<a href="#">ReplicationInstance*</a> <a href="#">ReplicationTask*</a>		
<a href="#">RebootReplicationInstance</a>	Grants permission to reboot a replication instance. Rebooting results in a momentary outage, until the replication instance becomes available again	Write	<a href="#">ReplicationInstance*</a>		
<a href="#">RefreshSchemas</a>	Grants permission to populate the schema for the specified endpoint	Write	<a href="#">Endpoint*</a> <a href="#">ReplicationInstance*</a>		
<a href="#">ReloadReplicationTables</a>	Grants permission to reload the target database table with the source for a replication	Write	<a href="#">ReplicationConfig*</a>		
<a href="#">ReloadTables</a>	Grants permission to reload the target database table with the source data	Write	<a href="#">ReplicationTask*</a>		
<a href="#">RemoveTagsFromResource</a>	Grants permission to remove metadata tags from a DMS resource	Tagging	<a href="#">Certificate</a> <a href="#">DataMigration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">DataProvider</a>		
			<a href="#">Endpoint</a>		
			<a href="#">EventSubscription</a>		
			<a href="#">InstanceProfile</a>		
			<a href="#">MigrationProject</a>		
			<a href="#">ReplicationConfig</a>		
			<a href="#">ReplicationInstance</a>		
			<a href="#">ReplicationSubnetGroup</a>		
			<a href="#">ReplicationTask</a>		
			<a href="#">ReplicationTaskAssessmentRun</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ReplicationTaskIndividualAssessment</a>		
<a href="#">RunFleetAdvisorLsaAnalysis</a>	Grants permission to run a large-scale assessment (LSA) analysis on every Fleet Advisor collector in your account	Write		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartDataMigration</a>	Grants permission to start the database migration	Write	<a href="#">DataMigration*</a>		
<a href="#">StartMetadataModelAssessment</a>	Grants permission to start a new assessment of metadata model	Write	<a href="#">MigrationProject*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMetadataModelConversion</a>	Grants permission to start a new conversion of metadata model	Write	<a href="#">MigrationProject*</a>		
<a href="#">StartMetadataModelCreation</a>	Grants permission to create source metadata model of the given type with the specified properties for schema conversion operations	Write	<a href="#">MigrationProject*</a>		
<a href="#">StartMetadataModelExportAsScripts</a>	Grants permission to start a new export of metadata model as script	Write	<a href="#">MigrationProject*</a>		
<a href="#">StartMetadataModelExportToTarget</a>	Grants permission to start a new export of metadata model to target	Write	<a href="#">MigrationProject*</a>		
<a href="#">StartMetadataModelImport</a>	Grants permission to start a new import of metadata model	Write	<a href="#">MigrationProject*</a>		
<a href="#">StartRecommendations</a>	Grants permission to start the analysis of your source database to provide recommendations of target engines	Write			
<a href="#">StartReplication</a>	Grants permission to start a replication	Write	<a href="#">ReplicationConfig*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartReplicationTask</a>	Grants permission to start the replication task	Write	<a href="#">ReplicationTask*</a>		
<a href="#">StartReplicationTaskAssessment</a>	Grants permission to start the replication task assessment for unsupported data types in the source database	Write	<a href="#">ReplicationTask*</a>		
<a href="#">StartReplicationTaskAssessmentRun</a>	Grants permission to start a new premigration assessment run for one or more individual assessments of a migration task	Write	<a href="#">ReplicationTask*</a>		iam:PassRole
<a href="#">StopDataMigration</a>	Grants permission to stop the database migration	Write	<a href="#">DataMigration*</a>		
<a href="#">StopReplication</a>	Grants permission to stop a replication	Write	<a href="#">ReplicationConfig*</a>		
<a href="#">StopReplicationTask</a>	Grants permission to stop the replication task	Write	<a href="#">ReplicationTask*</a>		
<a href="#">TestConnection</a>	Grants permission to test the connection between the replication instance and the endpoint	Read	<a href="#">Endpoint*</a> <a href="#">ReplicationInstance*</a>		
<a href="#">UpdateConversionConfiguration</a>	Grants permission to update a conversion configuration	Write	<a href="#">MigrationProject*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataProvider</a>	Grants permission to update the specified data provider	Write	<a href="#">DataProvider*</a>		
<a href="#">UpdateInstanceProfile</a>	Grants permission to update the specified instance profile	Write	<a href="#">InstanceProfile*</a>		
<a href="#">UpdateMigrationProject</a>	Grants permission to update the specified migration project	Write	<a href="#">MigrationProject*</a>		
<a href="#">UpdateSubscriptionsToEventBridge</a>	Grants permission to migrate DMS subscriptions to Eventbridge	Write			
<a href="#">UploadFileMetadataList</a> [permission only]	Grants permission to upload files to your Amazon S3 bucket	Write			

## Resource types defined by AWS Database Migration Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">Certificate</a>	arn:\${Partition}:dms:\${Region}:\${Account}:cert:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:cert-tag/\${TagKey}</a>
<a href="#">DataProvider</a>	arn:\${Partition}:dms:\${Region}:\${Account}:data-provider:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:data-provider-tag/\${TagKey}</a>
<a href="#">DataMigration</a>	arn:\${Partition}:dms:\${Region}:\${Account}:data-migration:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:data-migration-tag/\${TagKey}</a>
<a href="#">Endpoint</a>	arn:\${Partition}:dms:\${Region}:\${Account}:endpoint:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:endpoint-tag/\${TagKey}</a>
<a href="#">EventSubscription</a>	arn:\${Partition}:dms:\${Region}:\${Account}:es:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:es-tag/\${TagKey}</a>
<a href="#">InstanceProfile</a>	arn:\${Partition}:dms:\${Region}:\${Account}:instance-profile:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:instance-profile-tag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Migration Project</a>	arn:\${Partition}:dms:\${Region}:\${Account}:migration-project:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:migration-project-tag/\${TagKey}</a>
<a href="#">ReplicationConfig</a>	arn:\${Partition}:dms:\${Region}:\${Account}:replication-config:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:replication-config-tag/\${TagKey}</a>
<a href="#">ReplicationInstance</a>	arn:\${Partition}:dms:\${Region}:\${Account}:rep:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:rep-tag/\${TagKey}</a>
<a href="#">ReplicationSubnetGroup</a>	arn:\${Partition}:dms:\${Region}:\${Account}:subgrp:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:subgrp-tag/\${TagKey}</a>
<a href="#">ReplicationTask</a>	arn:\${Partition}:dms:\${Region}:\${Account}:task:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:task-tag/\${TagKey}</a>
<a href="#">ReplicationTaskAssessmentRun</a>	arn:\${Partition}:dms:\${Region}:\${Account}:assessment-run:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:assessment-run-tag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ReplicationTaskIndividualAssessment</a>	arn:\${Partition}:dms:\${Region}:\${Account}:individual-assessment:*	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">dms:individual-assessment-tag/\${TagKey}</a>

## Condition keys for AWS Database Migration Service

AWS Database Migration Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">dms:assessment-run-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for AssessmentRun	String
<a href="#">dms:cert-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for Certificate	String

Condition keys	Description	Type
<a href="#">dms:data-migration-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for DataMigration	String
<a href="#">dms:data-provider-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for DataProvider	String
<a href="#">dms:endpoint-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for Endpoint	String
<a href="#">dms:es-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for EventSubscription	String
<a href="#">dms:individual-assessment-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for IndividualAssessment	String
<a href="#">dms:instance-profile-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for InstanceProfile	String
<a href="#">dms:migration-project-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for MigrationProject	String
<a href="#">dms:rep-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for ReplicationInstance	String
<a href="#">dms:replication-config-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for ReplicationConfig	String
<a href="#">dms:req-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the given request	String

Condition keys	Description	Type
<a href="#">dms:subgrp-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for ReplicationSubnetGroup	String
<a href="#">dms:task-tag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request for ReplicationTask	String

## Actions, resources, and condition keys for Database Query Metadata Service

Database Query Metadata Service (service prefix: dbqms) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Database Query Metadata Service](#)
- [Resource types defined by Database Query Metadata Service](#)
- [Condition keys for Database Query Metadata Service](#)

## Actions defined by Database Query Metadata Service

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFavoriteQuery</a>	Grants permission to create a new favorite query	Write			
CreateQueryHistory	Grants permission to add a query to the history	Write			
<a href="#">CreateTab</a>	Grants permission to create a new query tab	Write			
<a href="#">DeleteFavoriteQueries</a>	Grants permission to delete saved queries	Write			
<a href="#">DeleteQueryHistory</a>	Grants permission to delete a historical query	Write			
<a href="#">DeleteTab</a>	Grants permission to delete query tab	Write			
<a href="#">DescribeFavoriteQueries</a>	Grants permission to list saved queries and associated metadata	List			
<a href="#">DescribeQueryHistory</a>	Grants permission to list history of queries that were run	List			
<a href="#">DescribeTabs</a>	Grants permission to list query tabs and associated metadata	List			
<a href="#">GetQueryString</a>	Grants permission to retrieve favorite or history query string by id	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFavoriteQuery</a>	Grants permission to update saved query and description	Write			
<a href="#">UpdateQueryHistory</a>	Grants permission to update the query history	Write			
<a href="#">UpdateTab</a>	Grants permission to update query tab	Write			

## Resource types defined by Database Query Metadata Service

Database Query Metadata Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Database Query Metadata Service, specify "Resource": "\*" in your policy.

## Condition keys for Database Query Metadata Service

DBQMS has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS DataSync

AWS DataSync (service prefix: `datasync`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics



- [Actions defined by AWS DataSync](#)
- [Resource types defined by AWS DataSync](#)
- [Condition keys for AWS DataSync](#)

## Actions defined by AWS DataSync

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddStorageSystem</a>	Grants permission to create a storage system	Write	<a href="#">agent*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CancelTaskExecution</a>	Grants permission to cancel execution of a sync task	Write	<a href="#">taskexecution*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAgent</a>	Grants permission to activate an agent that you have deployed on your host	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationAzureBlob</a>	Grants permission to create an endpoint for a Microsoft Azure Blob Storage container	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationEfs</a>	Grants permission to create an endpoint for an Amazon EFS file system	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationFsxLustre</a>	Grants permission to create an endpoint for an Amazon Fsx Lustre	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLocationFsxOntap</a>	Grants permission to create an endpoint for Amazon FSx for ONTAP	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationFsxOpenZfs</a>	Grants permission to create an endpoint for Amazon FSx for OpenZFS	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationFsxWindows</a>	Grants permission to create an endpoint for an Amazon FSx Windows File Server file system	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationHdfs</a>	Grants permission to create an endpoint for an Amazon Hdfs	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLocationNfs</a>	Grants permission to create an endpoint for a NFS file system	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationObjectStorage</a>	Grants permission to create an endpoint for a self-managed object storage bucket	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationS3</a>	Grants permission to create an endpoint for an Amazon S3 bucket	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLocationSmb</a>	Grants permission to create an endpoint for an SMB file system	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTask</a>	Grants permission to create a sync task	Write	<a href="#">location*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">agent</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAgent</a>	Grants permission to delete an agent	Write	<a href="#">agent*</a>		
<a href="#">DeleteLocation</a>	Grants permission to delete a location used by AWS DataSync	Write	<a href="#">location*</a>		
<a href="#">DeleteTask</a>	Grants permission to delete a sync task	Write	<a href="#">task*</a>		
<a href="#">DescribeAgent</a>	Grants permission to view metadata such as name, network interfaces, and the status (that is, whether the agent is running or not) about a sync agent	Read	<a href="#">agent*</a>		
<a href="#">DescribeDiscoveryJob</a>	Grants permission to describe metadata about a discovery job	Read	<a href="#">discoveryjob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLocationAzureBlob</a>	Grants permission to view metadata, such as the path information about an Azure Blob Storage sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationEfs</a>	Grants permission to view metadata, such as the path information about an Amazon EFS sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationFsxLustre</a>	Grants permission to view metadata, such as the path information about an Amazon FSx Lustre sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationFsxOntap</a>	Grants permission to view metadata, such as the path information about an Amazon FSx for ONTAP sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationFsxOpenZfs</a>	Grants permission to view metadata, such as the path information about an Amazon FSx OpenZFS sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationFsxWindows</a>	Grants permission to view metadata, such as the path information about an Amazon FSx Windows sync location	Read	<a href="#">location*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLocationHdfs</a>	Grants permission to view metadata, such as the path information about an Amazon HDFS sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationNfs</a>	Grants permission to view metadata, such as the path information, about a NFS sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationObjectStorage</a>	Grants permission to view metadata about a self-managed object storage server location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationS3</a>	Grants permission to view metadata, such as bucket name, about an Amazon S3 bucket sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeLocationSmb</a>	Grants permission to view metadata, such as the path information, about an SMB sync location	Read	<a href="#">location*</a>		
<a href="#">DescribeStorageSystem</a>	Grants permission to view metadata about a storage system	Read	<a href="#">storagesystem*</a>		
<a href="#">DescribeStorageSystemResourceMetrics</a>	Grants permission to describe resource metrics collected by a discovery job	List	<a href="#">discoveryjob*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStorageSystemResources</a>	Grants permission to describe resources identified by a discovery job	List	<a href="#">discovery job*</a>		
<a href="#">DescribeTask</a>	Grants permission to view metadata about a sync task	Read	<a href="#">task*</a>		
<a href="#">DescribeTaskExecution</a>	Grants permission to view metadata about a sync task that is being executed	Read	<a href="#">taskexecution*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GenerateRecommendations</a>	Grants permission to generate recommendations for a resource identified by a discovery job	Write	<a href="#">discovery job*</a>		
<a href="#">ListAgents</a>	Grants permission to list agents owned by an AWS account in a region specified in the request	List			
<a href="#">ListDiscoveryJobs</a>	Grants permission to list discovery jobs	List			
<a href="#">ListLocations</a>	Grants permission to list source and destination sync locations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStorageSystems</a>	Grants permission to list storage systems	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags that have been added to the specified resource	Read	<a href="#">agent</a>		
			<a href="#">discoveryjob</a>		
			<a href="#">location</a>		
			<a href="#">storagesystem</a>		
			<a href="#">task</a>		
			<a href="#">taskexecution</a>		
<a href="#">ListTaskExecutions</a>	Grants permission to list executed sync tasks	List		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTasks</a>	Grants permission to list of all the sync tasks	List			
<a href="#">RemoveStorageSystem</a>	Grants permission to delete a storage system	Write	<a href="#">storagesystem*</a>		
<a href="#">StartDiscoveryJob</a>	Grants permission to start a discovery job for a storage system	Write	<a href="#">storagesystem*</a>		
<a href="#">StartTaskExecution</a>		Write	<a href="#">task*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to start a specific invocation of a sync task			<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopDiscoveryJob</a>	Grants permission to stop a discovery job	Write	<a href="#">discoveryjob*</a>		
<a href="#">TagResource</a>	Grants permission to apply a key-value pair to an AWS resource	Tagging	<a href="#">agent</a>		
			<a href="#">discoveryjob</a>		
			<a href="#">location</a>		
			<a href="#">storagesystem</a>		
			<a href="#">task</a>		
			<a href="#">taskexecution</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from the specified resource	Tagging	<a href="#">agent</a> <a href="#">discoveryjob</a> <a href="#">location</a> <a href="#">storagesystem</a> <a href="#">task</a> <a href="#">taskexecution</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgent</a>	Grants permission to update the name of an agent	Write	<a href="#">agent*</a>		
<a href="#">UpdateDiscoveryJob</a>	Grants permission to update a discovery job	Write	<a href="#">discoveryjob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLocationAzureBlob</a>	Grants permission to update an Azure Blob Storage sync location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationEfs</a>	Grants permission to update an EFS sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationFsxLustre</a>	Grants permission to update an FSx Lustre sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationFsxOntap</a>	Grants permission to update an FSx ONTAP sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationFsxOpenZfs</a>	Grants permission to update an FSx OpenZFS sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationFsxWindows</a>	Grants permission to update an FSx Windows sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationHdfs</a>	Grants permission to update an HDFS sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationNfs</a>	Grants permission to update an NFS sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationObjectStorage</a>	Grants permission to update a self-managed object storage server location	Write	<a href="#">location*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLocationS3</a>	Grants permission to update an S3 sync Location	Write	<a href="#">location*</a>		
<a href="#">UpdateLocationSmb</a>	Grants permission to update a SMB sync location	Write	<a href="#">location*</a>		
<a href="#">UpdateStorageSystem</a>	Grants permission to update a storage system	Write	<a href="#">storagesystem*</a>		
<a href="#">UpdateTask</a>	Grants permission to update metadata associated with a sync task	Write	<a href="#">task*</a>		
<a href="#">UpdateTaskExecution</a>	Grants permission to update execution of a sync task	Write	<a href="#">taskexecution*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS DataSync

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">agent</a>	arn:\${Partition}:datasync:\${Region}:\${AccountId}:agent/\${AgentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">location</a>	arn:\${Partition}:datasync:\${Region}:\${AccountId}:location/\${LocationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">task</a>	arn:\${Partition}:datasync:\${Region}:\${AccountId}:task/\${TaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">taskexecution</a>	arn:\${Partition}:datasync:\${Region}:\${AccountId}:task/\${TaskId}/execution/\${ExecutionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">storagesystem</a>	arn:\${Partition}:datasync:\${Region}:\${AccountId}:system/\${StorageSystemId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">discoveryjob</a>	arn:\${Partition}:datasync:\${Region}:\${AccountId}:system/\${StorageSystemId}/job/\${DiscoveryJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS DataSync

AWS DataSync defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon DataZone

Amazon DataZone (service prefix: `datazone`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon DataZone](#)
- [Resource types defined by Amazon DataZone](#)
- [Condition keys for Amazon DataZone](#)

## Actions defined by Amazon DataZone

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).



The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptPredictions</a>	Grants permission to accept prediction	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptSubscriptionRequest</a>	Grants permission to approve a subscription request for a Data Asset	Write			
<a href="#">AddEntityOwner</a>	Grants permission to add an owner to an entity like domain unit	Write			
<a href="#">AddPolicyGrant</a>	Grants permission to add a policy grant	Permissions management			
<a href="#">AssociateEnvironmentRole</a>	Grants permission to associate a role in a default service blueprint environment	Write			
<a href="#">AssociateGovernedTerms</a>	Grants permission to associate governed terms to an asset	Write			
<a href="#">BatchDeleteLinkedTypes</a> [permission only]	Grants permission to remove linked type items from an Amazon DataZone Domain	Write	<a href="#">domain*</a>		
<a href="#">BatchGetAttributesMetadata</a>	Grants permission to retrieve attributes metadata	Read			
<a href="#">BatchGetCell</a>	Grants permission to batch get cells	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetCellRun</a>	Grants permission to batch get cell runs	Read			
<a href="#">BatchPutAttributesMetadata</a>	Grants permission to create and update attributes metadata	Write			
<a href="#">BatchPutLinkedTypes</a> [permission only]	Grants permission to put linked type items to an Amazon DataZone Domain	Write	<a href="#">domain*</a>		
<a href="#">CancelMetadataGenerationRun</a>	Grants permission to cancel metadata generation run	Write			
<a href="#">CancelSubscription</a>	Grants permission to revoke or unsubscribe an approved subscription to Data Asset	Write			
<a href="#">CreateAccountPool</a>	Grants permission to create an account pool	Write			
<a href="#">CreateAsset</a>	Grants permission to create asset	Write			
<a href="#">CreateAssetFilter</a>	Grants permission to create asset filter	Write			
<a href="#">CreateAssetRevision</a>	Grants permission to create new revision of an asset	Write			
<a href="#">CreateAssetType</a>	Grants permission to create an asset type	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCell</a>	Grants permission to create cells	Write			
<a href="#">CreateCellRun</a>	Grants permission to create cell runs	Write			
<a href="#">CreateConnection</a>	Grants permission to create connections	Write			
<a href="#">CreateDataProduct</a>	Grants permission to create data product	Write			
<a href="#">CreateDataProductRevision</a>	Grants permission to create data product revision	Write			
<a href="#">CreateDataSource</a>	Grants permission to create a new DataSource	Write			
<a href="#">CreateDomain</a>	Grants permission to provision a domain which is a top level entity that contains other Amazon DataZone resources	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateDomainUnit</a>	Grants permission to create a domain unit	Write			
<a href="#">CreateEnvironment</a>	Grants permission to create a collection of configured resources used to publish and subscribe to data	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironmentAction</a>	Grants permission to create an environment action in a default service blueprint environment	Write			
<a href="#">CreateEnvironmentBlueprint</a>	Grants permission to create a custom Environment Blueprint that allow user to add Environments to their Project	Write			
<a href="#">CreateEnvironmentProfile</a>	Grants permission to create a template from a Blueprint that can be used to create a Environment	Write			
<a href="#">createFormType</a>	Grants permission to create a form type or a new revision of it	Write			
<a href="#">CreateGlossary</a>	Grants permission to create a business glossary	Write			
<a href="#">CreateGlossaryTerm</a>	Grants permission to create a glossary term	Write			
<a href="#">CreateGroupProfile</a>	Grants permission to create a DataZone group profile for an IAM Identity Center group	Write			
<a href="#">CreateListingChangeSet</a>	Grants permission to create listing change set	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNotebook</a>	Grants permission to create notebooks	Write			
<a href="#">CreateProject</a>	Grants permission to create a Project to enable your team to publish and subscribe to data	Write			
<a href="#">CreateProjectMembership</a>	Grants permission to add a user to a Project	Write			
<a href="#">CreateProjectProfile</a>	Grants permission to create a project profile	Write			
<a href="#">CreateRule</a>	Grants permission to create rule	Write			
<a href="#">CreateSubscriptionGrant</a>	Grants permission to create a grant for an approved subscription on a subscription target	Write			
<a href="#">CreateSubscriptionRequest</a>	Grants permission to create a subscription request for a Data Asset	Write			
<a href="#">CreateSubscriptionTarget</a>	Grants permission to create a subscription target for a Environment in the project	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUserProfile</a>	Grants permission to create a user profile for an existing user in the customers IAM Identity Center	Write			
<a href="#">DeleteAccountPool</a>	Grants permission to delete an account pool	Write			
<a href="#">DeleteAsset</a>	Grants permission to delete an asset	Write			
<a href="#">DeleteAssetFilter</a>	Grants permission to delete asset filter	Write			
<a href="#">DeleteAssetType</a>	Grants permission to delete an asset type	Write			
<a href="#">DeleteCell</a>	Grants permission to delete cells	Write			
<a href="#">DeleteCellRun</a>	Grants permission to delete cell runs	Write			
<a href="#">DeleteConnection</a>	Grants permission to delete connections	Write			
<a href="#">DeleteDataExportConfiguration</a>	Grants permission to delete DataZone catalog data export configuration	Write			
<a href="#">DeleteDataProduct</a>	Grants permission to delete data product	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDataSource</a>	Grants permission to update existing DataSource	Write			
<a href="#">DeleteDomain</a>	Grants permission to delete a provisioned domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteDomainSharingPolicy</a> [permission only]	Grants permission to delete a resource policy for a DataZone Domain	Permissions management			
<a href="#">DeleteDomainUnit</a>	Grants permission to delete an existing domain unit	Write			
<a href="#">DeleteEnvironment</a>	Grants permission to Delete Environment	Write			
<a href="#">DeleteEnvironmentAction</a>	Grants permission to delete an environment action in a default service blueprint environment	Write			
<a href="#">DeleteEnvironmentBlueprint</a>	Grants permission to delete Environment Blueprint	Write			
<a href="#">DeleteEnvironmentBlueprintConfiguration</a>	Grants permission to delete environment blueprint configuration	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEnvironmentProfile</a>	Grants permission to delete Environment Profile	Write			
<a href="#">DeleteFormType</a>	Grants permission to delete a form type	Write			
<a href="#">DeleteGlossary</a>	Grants permission to delete a business glossary	Write			
<a href="#">DeleteGlossaryTerm</a>	Grants permission to delete a glossary term	Write			
<a href="#">DeleteListing</a>	Grants permission to delete listing	Write			
<a href="#">DeleteNotebook</a>	Grants permission to delete notebooks	Write			
<a href="#">DeleteProject</a>	Grants permission to delete a Project that enables your team to publish and subscribe to data	Write			
<a href="#">DeleteProjectMembership</a>	Grants permission to remove a user from a project	Write			
<a href="#">DeleteProjectProfile</a>	Grants permission to delete a project profile	Write			
<a href="#">DeleteRule</a>	Grants permission to delete rule	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSubscriptionGrant</a>	Grants permission to delete a subscription grant from a subscription target	Write			
<a href="#">DeleteSubscriptionRequest</a>	Grants permission to delete a pending subscription request for a Data Asset	Write			
<a href="#">DeleteSubscriptionTarget</a>	Grants permission to delete a subscription target from a Environment in the project	Write			
<a href="#">DeleteTimeSeriesDataPoints</a>	Grants permission to delete existing TimeSeriesDataPoints	Write			
<a href="#">DisassociateEnvironmentRole</a>	Grants permission to disassociate a role in a default service blueprint environment	Write			
<a href="#">DisassociateGovernedTerms</a>	Grants permission to disassociate governed terms to an asset	Write			
<a href="#">GenerateCode</a>	Grants permission to generate code	Write			
<a href="#">GetAccountPool</a>	Grants permission to get account pool details	Read			
<a href="#">GetAsset</a>	Grants permission to retrieve an asset	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAssetFilter</a>	Grants permission to get asset filter	Read			
<a href="#">GetAssetType</a>	Grants permission to get an asset type	Read			
<a href="#">GetCell</a>	Grants permission to get cells	Read			
<a href="#">GetCellRun</a>	Grants permission to get cell runs	Read			
<a href="#">GetCellRunResult</a>	Grants permission to get cell run result	Read			
<a href="#">GetConnection</a>	Grants permission to get connections	Read			
<a href="#">GetConversation</a>	Grants permission to get conversations	Read			
<a href="#">GetDataExportConfiguration</a>	Grants permission to retrieve DataZone catalog data export configuration	Read			
<a href="#">GetDataProduct</a>	Grants permission to get data product	Read			
<a href="#">GetDataSource</a>	Grants permission to Get a existing DataSource in Amazon DataZone using its identifier	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDataSourceRun</a>	Grants permission to get DataSource run job in Amazon DataZone using its identifier	Read			
<a href="#">GetDomain</a>	Grants permission to retrieve information about a domain	Read	<a href="#">domain*</a>		
<a href="#">GetDomainExecutionRoleCredentials</a> [permission only]	Grants permission to use features that require access to domain execution role credentials	Read			
<a href="#">GetDomainSharingPolicy</a> [permission only]	Grants permission to retrieve a resource policy for a DataZone Domain	Read			
<a href="#">GetDomainUnit</a>	Grants permission to get an existing domain unit	Read			
<a href="#">GetEnvironment</a>	Grants permission to get Environment details	Read			
<a href="#">GetEnvironmentAction</a>	Grants permission to get an environment action in a default service blueprint environment	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEnvironmentActionLink</a> [permission only]	Grants permission to get environment action link	Read			
<a href="#">GetEnvironmentBlueprint</a>	Grants permission to get Environment Blueprint details	Read			
<a href="#">GetEnvironmentBlueprintConfiguration</a>	Grants permission to get environment blueprint configuration	Read			
<a href="#">GetEnvironmentCredentials</a>	Grants permission to get short term credentials that assume the Environment user role	Read			
<a href="#">GetEnvironmentProfile</a>	Grants permission to get Environment Profile details	Read			
<a href="#">GetFormType</a>	Grants permission to get a form type	Read			
<a href="#">GetGlossary</a>	Grants permission to get a business glossary	Read			
<a href="#">GetGlossaryTerm</a>	Grants permission to get a glossary term	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGroupProfile</a>	Grants permission to retrieve an existing DataZone group profile	Read			
<a href="#">GetIamPortalLoginUrl</a>	Grants permission to an IAM principal to log into the DataZone Portal	Permissions management			
<a href="#">GetJobRun</a>	Grants permission to get job runs	Read			
<a href="#">GetLineageEvent</a>	Grants permission to get lineage events	Read			
<a href="#">GetLineageNode</a>	Grants permission to get the lineage node	Read			
<a href="#">GetListing</a>	Grants permission to get listing	Read			
<a href="#">GetMetadataGenerationRun</a>	Grants permission to get metadata generation run	Read			
<a href="#">GetNotebook</a>	Grants permission to get notebooks	Read			
<a href="#">GetNotebookCompute</a>	Grants permission to get notebook compute	Read			
<a href="#">GetNotebookExport</a>	Grants permission to get notebook exports	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetProject</a>	Grants permission to get Project details	Read			
<a href="#">GetProjectProfile</a>	Grants permission to get project profile details	Read			
<a href="#">GetRule</a>	Grants permission to get rule	Read			
<a href="#">GetSubscription</a>	Grants permission to retrieve a subscription	Read			
<a href="#">GetSubscriptionEligibility</a> [permission only]	Grants permission to get subscription eligibility	Read			
<a href="#">GetSubscriptionGrant</a>	Grants permission to retrieve a subscription grant	Read			
<a href="#">GetSubscriptionRequestDetails</a>	Grants permission to reject a subscription request for a Data Asset	Read			
<a href="#">GetSubscriptionTarget</a>	Grants permission to retrieve details of subscription target	Read			
<a href="#">GetTimeSeriesDataPoints</a>	Grants permission to get an existing TimeSeriesDataPoints in Amazon DataZone using its identifier	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUpdateEligibility</a>	Grants permission to get update eligibility status for project constructs	Read			
<a href="#">GetUserProfile</a>	Grants permission to retrieve a user profile for an existing user in the DataZone Domain	Read			
<a href="#">ListAccountEnvironments</a>	Grants permission to list Environments across all domains in an AWS Account	List			
<a href="#">ListAccountPools</a>	Grants permission to list account pools	List			
<a href="#">ListAccountsInAccountPool</a>	Grants permission to list accounts in an account pool	List			
<a href="#">ListAssetFilters</a>	Grants permission to list asset filters	List			
<a href="#">ListAssetRevisions</a>	Grants permission to list revisions of an asset	List			
<a href="#">ListCellRuns</a>	Grants permission to list cell runs	List			
<a href="#">ListConnections</a>	Grants permission to list connections	List			
<a href="#">ListConversations</a>	Grants permission to list conversations	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDataProductRevisions</a>	Grants permission to list data product revisions	List			
<a href="#">ListDataSourceActivities</a>	Grants permission to list DataSource runs job's activities on Asset	List			
<a href="#">ListDataSourceRuns</a>	Grants permission to list DataSource runs job	List			
<a href="#">ListDataSources</a>	Grants permission to list existing DataSources	List			
<a href="#">ListDomainUnitsForParent</a>	Grants permission to list child domain units for a given parent domain unit	List			
<a href="#">ListDomains</a>	Grants permission to retrieve all domains	List			
<a href="#">ListEntityOwners</a>	Grants permission to list owners of an entity like domain unit	List			
<a href="#">ListEnvironmentActions</a>	Grants permission to list environment actions in a default service blueprint environment	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEnvironmentBlueprintConfigurationSummaries</a> [permission only]	Grants permission to list environment blueprint configuration summaries	List			
<a href="#">ListEnvironmentBlueprintConfigurations</a>	Grants permission to list environment blueprint configurations	List			
<a href="#">ListEnvironmentBlueprints</a>	Grants permission to list Domain for Environment Blueprints	List			
<a href="#">ListEnvironmentProfiles</a>	Grants permission to list Domain for Environment Profiles	List			
<a href="#">ListEnvironments</a>	Grants permission to show Environments in the Domain	List			
<a href="#">ListGroupProfilesForUser</a>	Grants permission to list all the DataZone group profiles that the DataZone user profile is a member of	List			
<a href="#">ListJobRuns</a>	Grants permission to list job runs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListLineageEvents</a>	Grants permission to list lineage events	List			
<a href="#">ListLineageNodeHistory</a>	Grants permission to list historical versions of lineage node	List			
<a href="#">ListLinkedTypes</a> [permission only]	Grants permission to list linked type items linked to an Amazon DataZone Domain	List	<a href="#">domain*</a>		
<a href="#">ListMetadataGenerationRuns</a>	Grants permission to list metadata generation runs	List			
<a href="#">ListNotebooks</a>	Grants permission to list notebooks	List			
<a href="#">ListNotifications</a>	Grants permission to list notifications and events for a datazone user	List			
<a href="#">ListPolicyGrants</a>	Grants permission to list policy grants	List			
<a href="#">ListProjectMemberships</a>	Grants permission to list Project Members	List			
<a href="#">ListProjectProfiles</a>	Grants permission to list project profiles	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProjects</a>	Grants permission to list Projects	List			
<a href="#">ListRules</a>	Grants permission to list rules	List			
<a href="#">ListSubscriptionGrants</a>	Grants permission to List subscription grants for a subscribed principal	List			
<a href="#">ListSubscriptionRequests</a>	Grants permission to list subscription requests	List			
<a href="#">ListSubscriptionTargets</a>	Grants permission to list subscription targets	List			
<a href="#">ListSubscriptions</a>	Grants permission to list subscriptions	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve all tags associated with a resource	Read	<a href="#">domain</a>		
<a href="#">ListTimeSeriesDataPoints</a>	Grants permission to list existing TimeSeriesDataPoints	List			
<a href="#">ListWarehouseMetadata</a> [permission only]	Grants permission to list available Manager Secrets	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PostLineageEvent</a>	Grants permission to post lineage events	Write			
<a href="#">PostTimeSeriesDataPoints</a>	Grants permission to post a new TimeSeriesDataPoints	Write			
<a href="#">ProvisionDomain</a> [permission only]	Grants permission to provision domain with default project setup	Write			
<a href="#">PutCellRunResult</a>	Grants permission to put cell run results	Write			
<a href="#">PutDataExportConfiguration</a>	Grants permission to create and update DataZone catalog data export configuration	Write			
<a href="#">PutDomainSharingPolicy</a> [permission only]	Grants permission to add a resource policy for a DataZone Domain	Permissions management			
<a href="#">PutEnvironmentBlueprintConfiguration</a>	Grants permission to put environment blueprint configuration	Write			
<a href="#">QueryGraph</a>	Grants permission to query graph	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RefreshToken</a> [permission only]	Grants permission to refresh token	Write			
<a href="#">RejectPredictions</a>	Grants permission to reject prediction	Write			
<a href="#">RejectSubscriptionRequest</a>	Grants permission to reject a subscription request for a Data Asset	Write			
<a href="#">RemoveEntityOwner</a>	Grants permission to remove an existing owner of an entity like domain unit	Write			
<a href="#">RemovePolicyGrant</a>	Grants permission to remove a policy grant	Permissions management			
<a href="#">RevokeSubscription</a>	Grants permission to revoke a subscription	Permissions management			
<a href="#">Search</a>	Grants permission to search datazone entities	List			
<a href="#">SearchGroupProfiles</a>	Grants permission to search DataZone group profiles and IAM Identity Center groups	List			
<a href="#">SearchListings</a>	Grants permission to search listings	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchRules</a> [permission only]	Grants permission to search rules	List			
<a href="#">SearchTypes</a>	Grants permission to search types such as asset types and form types in a domain	List			
<a href="#">SearchUserProfiles</a>	Grants permission to search DataZone user profiles, IAM Identity Center users, and DataZone IAM principal profiles	List			
<a href="#">SendMessage</a>	Grants permission to send messages	Write			
<a href="#">SsoLogin</a> [permission only]	Grants permission to login using SSO	Write			
<a href="#">SsoLogout</a> [permission only]	Grants permission to logout as SSO user	Write			
<a href="#">StartAccountBootstrapAction</a> [permission only]	Grants permission to start account bootstrap action for a domain	Write			
<a href="#">StartConversation</a>	Grants permission to start conversations	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDataSourceRun</a>	Grants permission to start a DataSource run job	Write			
<a href="#">StartMetadataGenerationRun</a>	Grants permission to start metadata generation run	Write			
<a href="#">StartNotebookCompute</a>	Grants permission to start notebook compute	Write			
<a href="#">StartNotebookExport</a>	Grants permission to export notebooks	Write			
<a href="#">StartNotebookImport</a>	Grants permission to import notebooks	Write			
<a href="#">StopMetadataGenerationRun</a>	Grants permission to stop metadata generation run	Write			
<a href="#">StopNotebookCompute</a>	Grants permission to stop notebook compute	Write			
<a href="#">TagResource</a>	Grants permission to add or update tags to a resource	Tagging	<a href="#">domain*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to remove tags associated with a resource	Tagging	<a href="#">domain*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountPool</a>	Grants permission to update an account pool	Write			
<a href="#">UpdateAssetFilter</a>	Grants permission to update asset filter	Write			
<a href="#">UpdateCell</a>	Grants permission to update cells	Write			
<a href="#">UpdateCellRun</a>	Grants permission to update cell runs	Write			
<a href="#">UpdateConnection</a>	Grants permission to update connections	Write			
<a href="#">UpdateDataSource</a>	Grants permission to update existing DataSource	Write			
<a href="#">UpdateDataSourceRunActivities</a> [permission only]	Grants permission to update data source run activities	Write			
<a href="#">UpdateDomain</a>	Grants permission to update information for a domain	Write	<a href="#">domain*</a>		
<a href="#">UpdateDomainUnit</a>	Grants permission to update an existing domain unit	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironment</a>	Grants permission to update Environment settings	Write			
<a href="#">UpdateEnvironmentAction</a>	Grants permission to update an environment action in a default service blueprint environment	Write			
<a href="#">UpdateEnvironmentBlueprint</a>	Grants permission to update Environment Blueprint settings	Write			
<a href="#">UpdateEnvironmentConfiguration</a> [permission only]	Grants permission to update environment configuration	Write			
<a href="#">UpdateEnvironmentDeploymentStatus</a> [permission only]	Grants permission to update status of the Environment deployment	Write			
<a href="#">UpdateEnvironmentProfile</a>	Grants permission to update EnvironmentProfile configuration	Write			
<a href="#">UpdateGlossary</a>	Grants permission to update a business glossary	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateGlossaryTerm</a>	Grants permission to update a glossary term	Write			
<a href="#">UpdateGroupProfile</a>	Grants permission to update a DataZone group profile	Write			
<a href="#">UpdateNotebook</a>	Grants permission to update notebooks	Write			
<a href="#">UpdateProject</a>	Grants permission to update a Project that enables your team to publish and subscribe to data	Write			
<a href="#">UpdateProjectProfile</a>	Grants permission to update a project profile	Write			
<a href="#">UpdateRule</a>	Grants permission to update rule	Write			
<a href="#">UpdateSubscriptionGrantStatus</a>	Grants permission to update a subscription grant status for custom grants	Write			
<a href="#">UpdateSubscriptionRequest</a>	Grants permission to update business reason for subscription request for a Data Asset	Write			
<a href="#">UpdateSubscriptionTarget</a>	Grants permission to update a subscription target	Write			
<a href="#">UpdateUserProfile</a>	Grants permission to update a DataZone user profile	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidatePassRole</a> [permission only]	Grants permission to validate pass role	Write			

## Resource types defined by Amazon DataZone

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:datazone:\${Region}:\${Account}:domain/\${DomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon DataZone

Amazon DataZone defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">datazone:domainId</a>	Filters access by the domain ID passed in the request	String
<a href="#">datazone:projectId</a>	Filters access by the project ID passed in the request	String
<a href="#">datazone:userId</a>	Filters access by the user ID passed in the request	String

## Actions, resources, and condition keys for AWS Deadline Cloud

AWS Deadline Cloud (service prefix: `deadline`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Deadline Cloud](#)
- [Resource types defined by AWS Deadline Cloud](#)
- [Condition keys for AWS Deadline Cloud](#)

## Actions defined by AWS Deadline Cloud

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateMemberToFarm</a>	Grants permission to associate a member to a farm	Permissions management	<a href="#">farm*</a>		identitystore:DescribeGroup  identitystore:DescribeUser  identitystore:ListGroupMembersForMember
				<a href="#">deadline:AssociateMemberShipLevel</a>  <a href="#">deadline:MembershipLevel</a>	
<a href="#">AssociateMemberToFleet</a>	Grants permission to associate a member to a fleet	Permissions management	<a href="#">fleet*</a>		identitystore:DescribeGroup

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					identitystore:DescribeUser  identitystore:ListGroupMembersForMember
<a href="#">AssociateMemberToJob</a>	Grants permission to associate a member to a job	Permissions management	<a href="#">job*</a>	<a href="#">deadline:AssociateMemberShipLevel</a>  <a href="#">deadline:MembershipLevel</a>	identitystore:DescribeGroup  identitystore:DescribeUser  identitystore:ListGroupMembersForMember



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">deadline: AssociateMembershipLevel</a> <a href="#">deadline: MembershipLevel</a>	
<a href="#">AssociateMemberToQueue</a>	Grants permission to associate a member to a queue	Permissions management	<a href="#">queue*</a>		identitystore:DescribeGroup identitystore:DescribeUser identitystore:ListGroupMembersForMember
				<a href="#">deadline: AssociateMembershipLevel</a> <a href="#">deadline: MembershipLevel</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssumeFleetRoleForRead</a>	Grants permission to assume a fleet role for read-only access	Write	<a href="#">fleet*</a>		identitystore:ListGroupMembersForMember
<a href="#">AssumeFleetRoleForWorker</a>	Grants permission to assume a fleet role for a worker	Write	<a href="#">worker*</a>		
<a href="#">AssumeQueueRoleForRead</a>	Grants permission to assume a queue role for read-only access	Write	<a href="#">queue*</a>		identitystore:ListGroupMembersForMember
<a href="#">AssumeQueueRoleForUser</a>	Grants permission to assume a queue role for a user	Write	<a href="#">queue*</a>		identitystore:ListGroupMembersForMember
<a href="#">AssumeQueueRoleForWorker</a>	Grants permission to assume a queue role for a worker	Write	<a href="#">queue*</a> <a href="#">worker*</a>		
<a href="#">BatchGetJobEntity</a>	Grants permission to get a job entity for a worker	Read	<a href="#">worker*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyJobTemplate</a>	Grants permission to copy a job template to an Amazon S3 bucket	Write	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember s3:PutObject
<a href="#">CreateBudget</a>	Grants permission to create a budget	Write	<a href="#">budget*</a>		deadline:TagResource  identitystore:ListGroupMembershipsForMember
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateFarm</a>	Grants permission to create a farm	Write	<a href="#">farm*</a>		deadline:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFleet</a>	Grants permission to create a fleet	Write	<a href="#">fleet*</a>		deadline: TagResource ec2:CreateVpcEndpoint iam:PassRole identitystore:ListGroupMembershipsForMember logs:CreateLogGroup vpc-lattice:GetResourceConfiguration vpc-lattice:GetResourceGateway

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateJob</a>	Grants permission to create a job	Write	<a href="#">job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	deadline: GetJobTemplate  identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLicenseEndpoint</a>	Grants permission to create a license endpoint for licensed software or products	Write	<a href="#">license-endpoint*</a>		deadline: TagResource ec2:CreateTags ec2:CreateVpcEndpoint ec2:DescribeVpcEndpoints
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLimit</a>	Grants permission to create a limit for a farm	Write	<a href="#">farm*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMonitor</a>	Grants permission to create a monitor	Write	<a href="#">monitor*</a>		deadline: TagResource iam:PassRole sso:CreateApplication sso:DeleteApplication sso:PutApplicationAssignmentConfiguration sso:PutApplicationAuthenticationMethod sso:PutApplicationGrant



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateQueue</a>	Grants permission to create a queue	Write	<a href="#">queue*</a>		deadline: TagResource iam:PassRole identitystore:ListGroupMembersForMember logs:CreateLogGroup s3:ListBucket

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateQueueEnvironment</a>	Grants permission to create a queue environment	Write	<a href="#">queue*</a>		identitystore:ListGroupMembersForMember
<a href="#">CreateQueueFleetAssociation</a>	Grants permission to create a queue-fleet association	Write	<a href="#">fleet*</a>		identitystore:ListGroupMembersForMember
			<a href="#">queue*</a>		
<a href="#">CreateQueueLimitAssociation</a>	Grants permission to create a queue-limit association	Write	<a href="#">farm*</a>		identitystore:ListGroupMembersForMember
			<a href="#">queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStorageProfile</a>	Grants permission to create a storage profile for a farm	Write	<a href="#">farm*</a>		identitystore:ListGroupMembersForMember
<a href="#">CreateWorker</a>	Grants permission to create a worker	Write	<a href="#">worker*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	deadline:ListTagsForResource  deadline:TagResource
<a href="#">DeleteBudget</a>	Grants permission to delete a budget	Write	<a href="#">budget*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFarm</a>	Grants permission to delete a farm	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">DeleteFleet</a>	Grants permission to delete a fleet	Write	<a href="#">fleet*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">DeleteLicenseEndpoint</a>	Grants permission to delete a license endpoint	Write	<a href="#">license-endpoint*</a>		ec2:DeleteVpcEndpoints  ec2:DescribeVpcEndpoints
<a href="#">DeleteLimit</a>	Grants permission to delete a limit	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">DeleteMeteredProduct</a>	Grants permission to delete a metered product	Write	<a href="#">license-endpoint*</a>		
<a href="#">DeleteMonitor</a>	Grants permission to delete a monitor	Write	<a href="#">monitor*</a>		sso:DeleteApplication

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteQueue</a>	Grants permission to delete a queue	Write	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">DeleteQueueEnvironment</a>	Grants permission to delete a queue environment	Write	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">DeleteQueueFleetAssociation</a>	Grants permission to delete a queue-fleet association	Write	<a href="#">fleet*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">queue*</a>		
<a href="#">DeleteQueueLimitAssociation</a>	Grants permission to delete a queue-limit association	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">queue*</a>		
<a href="#">DeleteStorageProfile</a>	Grants permission to delete a storage profile	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWorker</a>	Grants permission to delete a worker	Write	<a href="#">worker*</a>		
<a href="#">DisassociateMemberFromFarm</a>	Grants permission to disassociate a member from a farm	Permissions management	<a href="#">farm*</a>		identitystore:ListGroupMembersForMember
				<a href="#">deadline:AssociateMemberShipLevel</a>	
<a href="#">DisassociateMemberFromFleet</a>	Grants permission to disassociate a member from a fleet	Permissions management	<a href="#">fleet*</a>		identitystore:ListGroupMembersForMember
				<a href="#">deadline:AssociateMemberShipLevel</a>	
<a href="#">DisassociateMemberFromJob</a>	Grants permission to disassociate a member from a job	Permissions management	<a href="#">job*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">deadline:AssociateMembershipsForMember</a>	
<a href="#">DisassociateMemberFromQueue</a>	Grants permission to disassociate a member from a queue	Permissions management	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember
				<a href="#">deadline:AssociateMembershipsForMember</a>	
<a href="#">GetApplicationVersion</a> [permission only]	Grants permission to get the latest version of an application	Read	<a href="#">monitor*</a>		
<a href="#">GetBudget</a>	Grants permission to get a budget	Read	<a href="#">budget*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetFarm</a>	Grants permission to get a farm	Read	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFleet</a>	Grants permission to get a fleet	Read	<a href="#">fleet*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetJob</a>	Grants permission to get a job	Read	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetJobTemplate</a> [permission only]	Grants permission to read job template	Read	<a href="#">job*</a>		
<a href="#">GetLicenseEndpoint</a>	Grants permission to get a license endpoint	Read	<a href="#">license-endpoint*</a>		
<a href="#">GetLimit</a>	Grants permission to get a limit	Read	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetMonitor</a>	Grants permission to get a monitor	Read	<a href="#">monitor*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetQueue</a>	Grants permission to get a queue	Read	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetQueueEnvironment</a>	Grants permission to get a queue environment	Read	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetQueueFleetAssociation</a>	Grants permission to get a queue-fleet association	Read	<a href="#">fleet*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">queue*</a>		
<a href="#">GetQueueLimitAssociation</a>	Grants permission to get a queue-limit association	Read	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">queue*</a>		
<a href="#">GetSession</a>	Grants permission to get a session for a job	Read	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSessionAction</a>	Grants permission to get a session action for a job	Read	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetSessionsStatisticsAggregation</a>	Grants permission to get all collected statistics for sessions	Read	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">fleet</a>		
			<a href="#">queue</a>		
<a href="#">GetStep</a>	Grants permission to get a step in a job	Read	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetStorageProfile</a>	Grants permission to get a storage profile	Read	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetStorageProfileForQueue</a>	Grants permission to get a storage profile for a queue	Read	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTask</a>	Grants permission to get a job task	Read	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">GetWorker</a>	Grants permission to get a worker	Read	<a href="#">worker*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListAvailableMeteredProducts</a>	Grants permission to list all available metered products within a license endpoint	List			
<a href="#">ListBudgets</a>	Grants permission to list all budgets for a farm	List	<a href="#">budget</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListFarmMembers</a>	Grants permission to list all members of a farm	List	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFarms</a>	Grants permission to list all farms	List	<a href="#">farm*</a>	<a href="#">deadline: Principal Id</a> <a href="#">deadline: Requester Principal Id</a>	identitystore:DescribeGroup identitystore:DescribeUser identitystore:ListGroupMembersForMember
<a href="#">ListFleetMembers</a>	Grants permission to list all members of a fleet	List	<a href="#">fleet*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFleets</a>	Grants permission to list all fleets	List	<a href="#">fleet*</a>	<a href="#">deadline: PrincipalId</a>  <a href="#">deadline: RequesterPrincipalId</a>	identitystore:DescribeGroup  identitystore:DescribeUser  identitystore:ListGroupMembersForMember
<a href="#">ListJobMembers</a>	Grants permission to list all members of a job	List	<a href="#">job*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListJobParameterDefinitions</a>	Grants permission to get a job's parameter definitions in the job template	List	<a href="#">job*</a>		identitystore:ListGroupMembersForMember
<a href="#">ListJobs</a>	Grants permission to list all jobs in a queue	List	<a href="#">job*</a>	<a href="#">deadline:PrincipalId</a> <a href="#">deadline:RequesterPrincipalId</a>	identitystore:DescribeGroup identitystore:DescribeUser identitystore:ListGroupMembersForMember
<a href="#">ListLicenseEndpoints</a>	Grants permission to list all license endpoints	List	<a href="#">license-endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions	
<a href="#">ListLimits</a>	Grants permission to list all limits in a farm	List	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember	
<a href="#">ListMeteredProducts</a>	Grants permission to list all metered products in a license endpoint	List	<a href="#">license-endpoint*</a>			
<a href="#">ListMonitors</a>	Grants permission to list all monitors	List	<a href="#">monitor*</a>			
<a href="#">ListQueueEnvironments</a>	Grants permission to list all queue environments to which a queue is associated	List	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember	
<a href="#">ListQueueFleetAssociations</a>	Grants permission to list all queue-fleet associations	List	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember	
			<a href="#">fleet</a>			
			<a href="#">queue</a>			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListQueueLimitAssociations</a>	Grants permission to list all queue-limit associations	List	<a href="#">farm*</a>		identitystore:ListGroupMembersForMember
			<a href="#">queue</a>		
<a href="#">ListQueueMembers</a>	Grants permission to list all members in a queue	List	<a href="#">queue</a>		identitystore:ListGroupMembersForMember
<a href="#">ListQueues</a>	Grants permission to list all queues on a farm	List	<a href="#">queue*</a>		identitystore:DescribeGroup identitystore:DescribeUser identitystore:ListGroupMembersForMember



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSessionActions</a>	Grants permission to list all session actions for a job	List	<a href="#">job*</a>	<a href="#">deadline:PrincipalId</a> <a href="#">deadline:RequesterPrincipalId</a>	identitystore:ListGroupMembersForMember
<a href="#">ListSessions</a>	Grants permission to list all sessions for a job	List	<a href="#">job*</a>		identitystore:ListGroupMembersForMember
<a href="#">ListSessionsForWorker</a>	Grants permission to list all sessions for a worker	List	<a href="#">worker</a>		identitystore:ListGroupMembersForMember
<a href="#">ListStepConsumers</a>	Grants permission to list the step consumers for a job step	List	<a href="#">job*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStepDependencies</a>	Grants permission to list dependencies for a job step	List	<a href="#">job</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListSteps</a>	Grants permission to list all steps for a job	List	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListStorageProfiles</a>	Grants permission to list all storage profiles in a farm	List	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListStorageProfilesForQueue</a>	Grants permission to list all storage profiles in a queue	List	<a href="#">queue</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListTagsForResource</a>	Grants permission to list all tags on specified Deadline Cloud resources	Read	<a href="#">budget</a>		
			<a href="#">farm</a>		
			<a href="#">fleet</a>		
			<a href="#">job</a>		
			<a href="#">license-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">monitor</a>		
			<a href="#">queue</a>		
			<a href="#">worker</a>		
				<a href="#">deadline: CalledAction</a>	
<a href="#">ListTasks</a>	Grants permission to list all tasks for a job	List	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">ListWorkers</a>	Grants permission to list all workers in a fleet	List	<a href="#">worker*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">PutMeteredProduct</a>	Grants permission to add a metered product to a license endpoint	Write	<a href="#">license-endpoint*</a>		
<a href="#">SearchJobs</a>	Grants permission to search for jobs in multiple queues	Read	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchSteps</a>	Grants permission to search the steps within a single job or to search the steps for multiple queues	Read	<a href="#">job</a>		identitystore:ListGroupMembershipsForResource
			<a href="#">queue</a>		
<a href="#">SearchTasks</a>	Grants permission to search the tasks within a single job or to search the tasks for multiple queues	Read	<a href="#">job</a>		identitystore:ListGroupMembershipsForResource
			<a href="#">queue</a>		
<a href="#">SearchWorkers</a>	Grants permission to search for workers in multiple fleets	Read			identitystore:ListGroupMembershipsForResource
<a href="#">StartSessionsStatisticsAggregation</a>	Grants permission to get all collected statistics for sessions	Read	<a href="#">fleet</a>		identitystore:ListGroupMembershipsForResource
			<a href="#">queue</a>		
<a href="#">TagResource</a>	Grants permission to add or overwrite one or more tags for the specified Deadline Cloud resource	Tagging	<a href="#">budget</a>		
			<a href="#">farm</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fleet</a>		
			<a href="#">job</a>		
			<a href="#">license-endpoint</a>		
			<a href="#">monitor</a>		
			<a href="#">queue</a>		
			<a href="#">worker</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">deadline:CalledAction</a>	
<a href="#">UntagResource</a>	Grants permission to disassociate one or more tags from the specified Deadline Cloud resource	Tagging	<a href="#">budget</a>		
			<a href="#">farm</a>		
			<a href="#">fleet</a>		
			<a href="#">job</a>		
			<a href="#">license-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">monitor</a>		
			<a href="#">queue</a>		
			<a href="#">worker</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBudget</a>	Grants permission to update a budget	Write	<a href="#">budget*</a>		identitystore:ListGroupMembersForMember
<a href="#">UpdateFarm</a>	Grants permission to update a farm	Write	<a href="#">farm*</a>		identitystore:ListGroupMembersForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFleet</a>	Grants permission to update a fleet	Write	<a href="#">fleet*</a>		ec2:CreateVpcEndpoint iam:PassRole identitystore:ListGroupMembershipsForMember vpc-lattice:GetResourceConfiguration vpc-lattice:GetResourceGateway
<a href="#">UpdateJob</a>	Grants permission to update a job	Write	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLimit</a>	Grants permission to update a limit for a farm	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">UpdateMonitor</a>	Grants permission to update a monitor	Write	<a href="#">monitor*</a>		iam:PassRole sso:PutApplicationGrant sso:UpdateApplication
<a href="#">UpdateQueue</a>	Grants permission to update a queue	Write	<a href="#">queue*</a>		iam:PassRole identitystore:ListGroupMembershipsForMember
<a href="#">UpdateQueueEnvironment</a>	Grants permission to update a queue environment	Write	<a href="#">queue*</a>		identitystore:ListGroupMembershipsForMember



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateQueueFleetAssociation</a>	Grants permission to update a queue-fleet association	Write	<a href="#">fleet*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">queue*</a>		
<a href="#">UpdateQueueLimitAssociation</a>	Grants permission to update a queue-limit association	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember
			<a href="#">queue*</a>		
<a href="#">UpdateSession</a>	Grants permission to update a session for a job	Write	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">UpdateStep</a>	Grants permission to update a step for a job	Write	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">UpdateStorageProfile</a>	Grants permission to update a storage profile for a farm	Write	<a href="#">farm*</a>		identitystore:ListGroupMembershipsForMember

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTask</a>	Grants permission to update a task	Write	<a href="#">job*</a>		identitystore:ListGroupMembershipsForMember
<a href="#">UpdateWorker</a>	Grants permission to update a worker	Write	<a href="#">worker*</a>		logs:CreateLogStream
<a href="#">UpdateWorkerSchedule</a>	Grants permission to update the schedule for a worker	Write	<a href="#">worker*</a>		logs:CreateLogStream

## Resource types defined by AWS Deadline Cloud

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">budget</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:farm/\${FarmId}/budget/\${BudgetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">deadline:FarmMembershipLevels</a>

Resource types	ARN	Condition keys
<a href="#">farm</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:farm/\${FarmId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">deadline:FarmMembershipLevels</a>
<a href="#">fleet</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:farm/\${FarmId}/fleet/\${FleetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">deadline:FarmMembershipLevels</a>  <a href="#">deadline:FleetMembershipLevels</a>
<a href="#">job</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:farm/\${FarmId}/queue/\${QueueId}/job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">deadline:FarmMembershipLevels</a>  <a href="#">deadline:JobMembershipLevels</a>  <a href="#">deadline:QueueMembershipLevels</a>
<a href="#">license-endpoint</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:license-endpoint/\${LicenseEndpointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">monitor</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:monitor/\${MonitorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">queue</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:farm/\${FarmId}/queue/\${QueueId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">deadline:FarmMembershipLevels</a>  <a href="#">deadline:QueueMembershipLevels</a>
<a href="#">worker</a>	arn:\${Partition}:deadline:\${Region}:\${Account}:farm/\${FarmId}/fleet/\${FleetId}/worker/\${WorkerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">deadline:FarmMembershipLevels</a>  <a href="#">deadline:FleetMembershipLevels</a>

## Condition keys for AWS Deadline Cloud

AWS Deadline Cloud defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">deadline:AssociateMembershipLevel</a>	Filters access by the associated membership level of the principal provided in the request	String
<a href="#">deadline:CalledAction</a>	Filters access by the allowed action in the request	String
<a href="#">deadline:FarmMembershipLevels</a>	Filters access by membership levels on the farm	ArrayOfString
<a href="#">deadline:FleetMembershipLevels</a>	Filters access by membership levels on the fleet	ArrayOfString
<a href="#">deadline:JobMembershipLevels</a>	Filters access by membership levels on the job	ArrayOfString
<a href="#">deadline:MembershipLevel</a>	Filters access by the membership level passed in the request	String
<a href="#">deadline:PrincipalId</a>	Filters access by the principle ID provided in the request	String
<a href="#">deadline:QueueMembershipLevels</a>	Filters access by membership levels on the queue	ArrayOfString

Condition keys	Description	Type
<a href="#">deadline:</a> <a href="#">Requester</a> <a href="#">PrincipalId</a>	Filters access by the user calling the Deadline Cloud API	String

## Actions, resources, and condition keys for Amazon Detective

Amazon Detective (service prefix: `detective`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Detective](#)
- [Resource types defined by Amazon Detective](#)
- [Condition keys for Amazon Detective](#)

## Actions defined by Amazon Detective

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptInvitation</a>	Grants permission to accept an invitation to become a member of a behavior graph	Write	<a href="#">Graph*</a>		
<a href="#">BatchGetGraphMemberDatasources</a>	Grants permission to retrieve the datasource package history for the specified member accounts in a behavior graph managed by this account	Read	<a href="#">Graph*</a>		
<a href="#">BatchGetMembershipsDatasources</a>	Grants permission to retrieve the datasource package history of the caller account for the specified graphs	Read			
<a href="#">CreateGraph</a>	Grants permission to create a behavior graph and begin to aggregate security information	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	detective:TagResource
<a href="#">CreateMembers</a>	Grants permission to request the membership of one or more accounts in a behavior	Write	<a href="#">Graph*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	graph managed by this account				
<a href="#">DeleteGraph</a>	Grants permission to delete a behavior graph and stop aggregating security information	Write	<a href="#">Graph*</a>		
<a href="#">DeleteMembers</a>	Grants permission to remove member accounts from a behavior graph managed by this account	Write	<a href="#">Graph*</a>		
<a href="#">DescribeOrganizationConfiguration</a>	Grants permission to view the current configuration related to the Amazon Detective integration with AWS Organizations	Read	<a href="#">Graph*</a>		organizations:DescribeOrganization
<a href="#">DisableOrganizationAdminAccount</a>	Grants permission to remove the Amazon Detective delegated administrator account for an organization	Write			organizations:DescribeOrganization
<a href="#">DisassociateMembership</a>	Grants permission to remove the association of this account with a behavior graph	Write	<a href="#">Graph*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableOrganizationAdminAccount</a>	Grants permission to designate the Amazon Detective delegated administrator account for an organization	Write			iam:CreateServiceLinkedRole  organizations:DescribeOrganization  organizations:EnableAWSServiceAccess  organizations:RegisterDelegatedAdministrator
<a href="#">GetFreeTrialEligibility</a> [permission only]	Grants permission to retrieve a behavior graph's eligibility for a free trial period	Read	<a href="#">Graph*</a>		
<a href="#">GetGraphIngestState</a> [permission only]	Grants permission to retrieve the data ingestion state of a behavior graph	Read	<a href="#">Graph*</a>		
<a href="#">GetInvestigation</a>	Grants permission to get an investigation's status and metadata	Read	<a href="#">Graph*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMembers</a>	Grants permission to retrieve details on specified members of a behavior graph	Read	<a href="#">Graph*</a>		
<a href="#">GetPricingInformation</a> [permission only]	Grants permission to retrieve information about Amazon Detective's pricing	Read			
<a href="#">GetUsageInformation</a> [permission only]	Grants permission to list usage information of a behavior graph	Read	<a href="#">Graph*</a>		
<a href="#">InvokeAssistant</a> [permission only]	Grants permission to invoke Detective's Assistant	Read	<a href="#">Graph*</a>		
<a href="#">ListDataSourcePackages</a>	Grants permission to list a graph's datasource package ingest states and timestamps for the most recent state changes in a behavior graph managed by this account	List	<a href="#">Graph*</a>		
<a href="#">ListGraphs</a>	Grants permission to list behavior graphs managed by this account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListHighDegreeEntities</a> [permission only]	Grants permission to retrieve high volume entities whose relationships cannot be stored by Detective	List	<a href="#">Graph*</a>		
<a href="#">ListIndicators</a>	Grants permission to list the indicators of an investigation	List	<a href="#">Graph*</a>		
<a href="#">ListInvestigations</a>	Grants permission to list the investigations of a behavior graph	List	<a href="#">Graph*</a>		
<a href="#">ListInvitations</a>	Grants permission to retrieve details on the behavior graphs to which this account has been invited to join	List			
<a href="#">ListMembers</a>	Grants permission to retrieve details on all members of a behavior graph	List	<a href="#">Graph*</a>		
<a href="#">ListOrganizationAdminAccount</a>	Grants permission to view the current Amazon Detective delegated administrator account for an organization	List			organizations:DescribeOrganization
<a href="#">ListTagsForResource</a>	Grants permission to list the tag values that are assigned to a behavior graph	List	<a href="#">Graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectInvitation</a>	Grants permission to reject an invitation to become a member of a behavior graph	Write	<a href="#">Graph*</a>		
<a href="#">SearchGraph</a> [permission only]	Grants permission to search the data stored in a behavior graph	Read	<a href="#">Graph*</a>		
<a href="#">StartInvestigation</a>	Grants permission to start investigations	Write	<a href="#">Graph*</a>		
<a href="#">StartMonitoringMember</a>	Grants permission to start data ingest for a member account that has a status of ACCEPTED_BUT_DISABLED	Write	<a href="#">Graph*</a>		
<a href="#">TagResource</a>	Grants permission to assign tag values to a behavior graph	Tagging	<a href="#">Graph*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tag values from a behavior graph	Tagging	<a href="#">Graph*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDataSourcePackages</a>	Grants permission to enable or disable datasource package(s) in a behavior graph managed by this account	Write	<a href="#">Graph*</a>		
<a href="#">UpdateInvestigationState</a>	Grants permission to update an investigation's state and metadata	Write	<a href="#">Graph*</a>		
<a href="#">UpdateOrganizationConfiguration</a>	Grants permission to update the current configuration related to the Amazon Detective integration with AWS Organizations	Write	<a href="#">Graph*</a>		organizations:DescribeOrganization

## Resource types defined by Amazon Detective

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Graph</a>	arn:\${Partition}:detective:\${Region}:\${Account}:graph:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Detective

Amazon Detective defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by specifying the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by specifying the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by specifying the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Device Farm

AWS Device Farm (service prefix: `devicefarm`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Device Farm](#)
- [Resource types defined by AWS Device Farm](#)
- [Condition keys for AWS Device Farm](#)

## Actions defined by AWS Device Farm

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the



Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDevicePool</a>	Grants permission to create a device pool within a project	Write	<a href="#">project*</a>		
<a href="#">CreateInstanceProfile</a>	Grants permission to create a device instance profile	Write			
<a href="#">CreateNetworkProfile</a>	Grants permission to create a network profile within a project	Write	<a href="#">project*</a>		
<a href="#">CreateProject</a>	Grants permission to create a project for mobile testing	Write			ec2:CreateNetworkInterface ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRemoteAccessSession</a>	Grants permission to start a remote access session to a device instance	Write	<a href="#">device*</a> <a href="#">project*</a> <a href="#">deviceinstance</a> <a href="#">upload</a>		
<a href="#">CreateTestGridProject</a>	Grants permission to create a project for desktop testing	Write			ec2:CreateNetworkInterface ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs iam:CreateServiceLinkedRole
<a href="#">CreateTestGridUrl</a>	Grants permission to generate a new pre-signed url used to access our test grid service	Write	<a href="#">testgrid-project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUpload</a>	Grants permission to upload a new file or app within a project	Write	<a href="#">project*</a>		
<a href="#">CreateVPCConfiguration</a>	Grants permission to create an Amazon Virtual Private Cloud (VPC) endpoint configuration	Write			
<a href="#">DeleteDevicePool</a>	Grants permission to delete a user-generated device pool	Write	<a href="#">devicepool*</a>		
<a href="#">DeleteInstanceProfile</a>	Grants permission to delete a user-generated instance profile	Write	<a href="#">instanceprofile*</a>		
<a href="#">DeleteNetworkProfile</a>	Grants permission to delete a user-generated network profile	Write	<a href="#">networkprofile*</a>		
<a href="#">DeleteProject</a>	Grants permission to delete a mobile testing project	Write	<a href="#">project*</a>		
<a href="#">DeleteRemoteAccessSession</a>	Grants permission to delete a completed remote access session and its results	Write	<a href="#">session*</a>		
<a href="#">DeleteRun</a>	Grants permission to delete a run	Write	<a href="#">run*</a>		
<a href="#">DeleteTestGridProject</a>	Grants permission to delete a desktop testing project	Write	<a href="#">testgrid-project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteUpload</a>	Grants permission to delete a user-uploaded file	Write	<a href="#">upload*</a>		
<a href="#">DeleteVPC EConfiguration</a>	Grants permission to delete an Amazon Virtual Private Cloud (VPC) endpoint configuration	Write	<a href="#">vpceconfiguration*</a>		
<a href="#">GetAccountSettings</a>	Grants permission to retrieve the number of unmetered iOS and/or unmetered Android devices purchased by the account	Read			
<a href="#">GetDevice</a>	Grants permission to retrieve the information of a unique device type	Read	<a href="#">device*</a>		
<a href="#">GetDevice Instance</a>	Grants permission to retrieve the information of a device instance	Read	<a href="#">deviceinstance*</a>		
<a href="#">GetDevice Pool</a>	Grants permission to retrieve the information of a device pool	Read	<a href="#">devicepool*</a>		
<a href="#">GetDevice PoolCompatibility</a>	Grants permission to retrieve information about the compatibility of a test and/or app with a device pool	Read	<a href="#">devicepool*</a> <a href="#">upload</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstanceProfile</a>	Grants permission to retrieve the information of an instance profile	Read	<a href="#">instanceprofile*</a>		
<a href="#">GetJob</a>	Grants permission to retrieve the information of a job	Read	<a href="#">job*</a>		
<a href="#">GetNetworkProfile</a>	Grants permission to retrieve the information of a network profile	Read	<a href="#">networkprofile*</a>		
<a href="#">GetOfferingStatus</a>	Grants permission to retrieve the current status and future status of all offerings purchased by an AWS account	Read			
<a href="#">GetProject</a>	Grants permission to retrieve information about a mobile testing project	Read	<a href="#">project*</a>		
<a href="#">GetRemoteAccessSession</a>	Grants permission to retrieve the link to a currently running remote access session	Read	<a href="#">session*</a>		
<a href="#">GetRun</a>	Grants permission to retrieve the information of a run	Read	<a href="#">run*</a>		
<a href="#">GetSuite</a>	Grants permission to retrieve the information of a testing suite	Read	<a href="#">suite*</a>		
<a href="#">GetTest</a>	Grants permission to retrieve the information of a test case	Read	<a href="#">test*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTestGridProject</a>	Grants permission to retrieve information about a desktop testing project	Read	<a href="#">testgrid-project*</a>		
<a href="#">GetTestGridSession</a>	Grants permission to retrieve the information of a test grid session	Read	<a href="#">testgrid-project</a> <a href="#">testgrid-session</a>		
<a href="#">GetUpload</a>	Grants permission to retrieve the information of an uploaded file	Read	<a href="#">upload*</a>		
<a href="#">GetVPCEConfiguration</a>	Grants permission to retrieve the information of an Amazon Virtual Private Cloud (VPC) endpoint configuration	Read	<a href="#">vpceconfiguration*</a>		
<a href="#">InstallToRemoteAccessSession</a>	Grants permission to install an application to a device in a remote access session	Write	<a href="#">session*</a> <a href="#">upload*</a>		
<a href="#">ListArtifacts</a>	Grants permission to list the artifacts in a project	List	<a href="#">job</a> <a href="#">run</a> <a href="#">suite</a> <a href="#">test</a>		
<a href="#">ListDeviceInstances</a>	Grants permission to list the information of device instances	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDevicePools</a>	Grants permission to list the information of device pools	List	<a href="#">project*</a>		
<a href="#">ListDevices</a>	Grants permission to list the information of unique device types	List			
<a href="#">ListInstanceProfiles</a>	Grants permission to list the information of device instance profiles	List			
<a href="#">ListJobs</a>	Grants permission to list the information of jobs within a run	List	<a href="#">run*</a>		
<a href="#">ListNetworkProfiles</a>	Grants permission to list the information of network profiles within a project	List	<a href="#">project*</a>		
<a href="#">ListOfferingPromotions</a>	Grants permission to list the offering promotions	List			
<a href="#">ListOfferingTransactions</a>	Grants permission to list all of the historical purchases, renewals, and system renewal transactions for an AWS account	List			
<a href="#">ListOfferings</a>	Grants permission to list the products or offerings that the user can manage through the API	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProjects</a>	Grants permission to list the information of mobile testing projects for an AWS account	List			
<a href="#">ListRemoteAccessSessions</a>	Grants permission to list the information of currently running remote access sessions	List	<a href="#">project*</a>		
<a href="#">ListRuns</a>	Grants permission to list the information of runs within a project	List	<a href="#">project*</a>		
<a href="#">ListSamples</a>	Grants permission to list the information of samples within a project	List	<a href="#">job*</a>		
<a href="#">ListSuites</a>	Grants permission to list the information of testing suites within a job	List	<a href="#">job*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags of a resource	List	<a href="#">device</a>		
			<a href="#">deviceinstance</a>		
			<a href="#">devicepool</a>		
			<a href="#">instanceprofile</a>		
			<a href="#">networkprofile</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">project</a>		
			<a href="#">run</a>		
			<a href="#">session</a>		
			<a href="#">testgrid-project</a>		
			<a href="#">testgrid-session</a>		
			<a href="#">vpceconfiguration</a>		
<a href="#">ListTestGridProjects</a>	Grants permission to list the information of desktop testing projects for an AWS account	List			
<a href="#">ListTestGridSessionActions</a>	Grants permission to list the session actions performed during a test grid session	List	<a href="#">testgrid-session*</a>		
<a href="#">ListTestGridSessionArtifacts</a>	Grants permission to list the artifacts generated by a test grid session	List	<a href="#">testgrid-session*</a>		
<a href="#">ListTestGridSessions</a>	Grants permission to list the sessions within a test grid project	List	<a href="#">testgrid-project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTests</a>	Grants permission to list the information of tests within a testing suite	List	<a href="#">suite*</a>		
<a href="#">ListUniqueProblems</a>	Grants permission to list the information of unique problems within a run	List	<a href="#">run*</a>		
<a href="#">ListUploads</a>	Grants permission to list the information of uploads within a project	List	<a href="#">project*</a>		
<a href="#">ListVPCEConfigurations</a>	Grants permission to list the information of Amazon Virtual Private Cloud (VPC) endpoint configurations	List			
<a href="#">PurchaseOffering</a>	Grants permission to purchase offerings for an AWS account	Write			
<a href="#">RenewOffering</a>	Grants permission to set the quantity of devices to renew for an offering	Write			
<a href="#">ScheduleRun</a>	Grants permission to schedule a run	Write	<a href="#">project*</a> <a href="#">devicepool</a> <a href="#">upload</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO:</b> Device Pool as filter		<a href="#">devicepool*</a> <a href="#">project*</a> <a href="#">upload</a>		
	<b>SCENARIO:</b> Device Selection Configuration as filter		<a href="#">project*</a> <a href="#">upload</a>		
<a href="#">StopJob</a>	Grants permission to terminate a running job	Write	<a href="#">job*</a>		
<a href="#">StopRemoteAccessSession</a>	Grants permission to terminate a running remote access session	Write	<a href="#">session*</a>		
<a href="#">StopRun</a>	Grants permission to terminate a running test run	Write	<a href="#">run*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">device</a> <a href="#">deviceinstance</a> <a href="#">devicepool</a> <a href="#">instanceprofile</a> <a href="#">networkprofile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">project</a>		
			<a href="#">run</a>		
			<a href="#">session</a>		
			<a href="#">testgrid-project</a>		
			<a href="#">testgrid-session</a>		
			<a href="#">vpceconfiguration</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">device</a>		
			<a href="#">deviceinstance</a>		
			<a href="#">devicepool</a>		
			<a href="#">instanceprofile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">networkprofile</a>		
			<a href="#">project</a>		
			<a href="#">run</a>		
			<a href="#">session</a>		
			<a href="#">testgrid-project</a>		
			<a href="#">testgrid-session</a>		
			<a href="#">vpceconfiguration</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDeviceInstance</a>	Grants permission to modify an existing device instance	Write	<a href="#">deviceinstance*</a>		
			<a href="#">instanceprofile</a>		
<a href="#">UpdateDevicePool</a>	Grants permission to modify an existing device pool	Write	<a href="#">devicepool*</a>		
<a href="#">UpdateInstanceProfile</a>	Grants permission to modify an existing instance profile	Write	<a href="#">instanceprofile*</a>		
<a href="#">UpdateNetworkProfile</a>	Grants permission to modify an existing network profile	Write	<a href="#">networkprofile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProject</a>	Grants permission to modify an existing mobile testing project	Write	<a href="#">project*</a>		ec2:CreateNetworkInterface ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTestGridProject</a>	Grants permission to modify an existing desktop testing project	Write	<a href="#">testgrid-project*</a>		ec2:CreateNetworkInterface  ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcs  iam:CreateServiceLinkedRole
<a href="#">UpdateUpload</a>	Grants permission to modify an existing upload	Write	<a href="#">upload*</a>		
<a href="#">UpdateVPCConfiguration</a>	Grants permission to modify an existing Amazon Virtual Private Cloud (VPC) endpoint configuration	Write	<a href="#">vpceconfiguration*</a>		

## Resource types defined by AWS Device Farm

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">project</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:project:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">run</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:run:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:job:\${ResourceId}	
<a href="#">suite</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:suite:\${ResourceId}	
<a href="#">test</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:test:\${ResourceId}	
<a href="#">upload</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:upload:\${ResourceId}	
<a href="#">artifact</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:artifact:\${ResourceId}	
<a href="#">sample</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:sample:\${ResourceId}	
<a href="#">networkprofile</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:networkprofile:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deviceinstance</a>	arn:\${Partition}:devicefarm:\${Region}::deviceinstance:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">session</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:session:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">devicepool</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:devicepool:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">device</a>	arn:\${Partition}:devicefarm:\${Region}::device:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">instanceprofile</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:instanceprofile:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vpceconfiguration</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:vpceconfiguration:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">testgrid-project</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:testgrid-project:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">testgrid-session</a>	arn:\${Partition}:devicefarm:\${Region}:\${Account}:testgrid-session:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Device Farm

AWS Device Farm defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS DevOps Agent Service

AWS DevOps Agent Service (service prefix: `aidevops`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS DevOps Agent Service](#)
- [Resource types defined by AWS DevOps Agent Service](#)
- [Condition keys for AWS DevOps Agent Service](#)

## Actions defined by AWS DevOps Agent Service


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to authorize vended logs	Permissions management			
<a href="#">AssociateService</a>	Grants permission to associate service	Write	<a href="#">agentspace*</a> <a href="#">associations*</a>		
<a href="#">CreateAgentSpace</a>	Grants permission to create agentspace	Write	<a href="#">agentspace*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBacklogTask</a>	Grants permission to create a new backlog task	Write	<a href="#">agentspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateChat</a>	Grants permission to create a chat	Write	<a href="#">agentspace*</a>		
<a href="#">CreateKnowledgeItem</a>	Grants permission to create a new knowledge item	Write	<a href="#">agentspace*</a>		
<a href="#">DeleteAgentSpace</a>	Grants permission to delete agentspace	Write	<a href="#">agentspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteKnowledgeItem</a>	Grants permission to delete a knowledge item	Write	<a href="#">agentspace*</a>		
<a href="#">DeregisterService</a>	Grants permission to deregister a service	Write	<a href="#">service*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeSupportLevel</a>	Grants permission to describe a chat for a case	Write	<a href="#">agentspace*</a>		
<a href="#">DisableOperatorApp</a>	Grants permission to disable the Operator App access to the given AgentSpace	Write	<a href="#">agentspace*</a>		
<a href="#">DisassociateService</a>	Grants permission to disassociate service	Write	<a href="#">agentspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">associations*</a>		
<a href="#">DiscoverTopology</a>	Grants permission to discover topology information	Write	<a href="#">agentspace*</a>		
<a href="#">EnableOperatorApp</a>	Grants permission to enable the Operator App to access the given AgentSpace	Write	<a href="#">agentspace*</a>		
<a href="#">EndChatForCase</a>	Grants permission to end a chat for a case	Write	<a href="#">agentspace*</a>		
<a href="#">GetAccountUsage</a>	Grants permission to retrieve account usage information	Read			
<a href="#">GetAgentSpace</a>	Grants permission to get agentspace	Read	<a href="#">agentspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAssociation</a>	Grants permission to get association	Read	<a href="#">agentspace*</a>		
			<a href="#">associations*</a>		
<a href="#">GetBacklogTask</a>	Grants permission to get a backlog task	Read	<a href="#">agentspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetKnowledgeItem</a>	Grants permission to get a knowledge item	Read	<a href="#">agentspace*</a>		
<a href="#">GetOperatorApp</a>	Grants permission to get operator auth config for any enabled auth flow	Read	<a href="#">agentspace*</a>		
<a href="#">GetRecommendation</a>	Grants permission to get a recommendation	Read	<a href="#">agentspace*</a>		
<a href="#">GetService</a>	Grants permission to get services	Read	<a href="#">service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">InitiateChatForCase</a>	Grants permission to initiate a chat for a case	Write	<a href="#">agentspace*</a>		
<a href="#">ListAgentSpaces</a>	Grants permission to list agentspace	List			
<a href="#">ListAssociations</a>	Grants permission to list associations	List	<a href="#">agentspace*</a>		
<a href="#">ListBacklogTasks</a>	Grants permission to list backlog tasks	List	<a href="#">agentspace*</a>		
<a href="#">ListChats</a>	Grants permission to list chats	List	<a href="#">agentspace*</a>		
<a href="#">ListExecutions</a>	Grants permission to list executions	List	<a href="#">agentspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGoals</a>	Grants permission to list goals	List	<a href="#">agentspace*</a>		
<a href="#">ListJournalRecords</a>	Grants permission to list journal records	List	<a href="#">agentspace*</a>		
<a href="#">ListKnowledgeItemVersions</a>	Grants permission to list knowledge item versions	List	<a href="#">agentspace*</a>		
<a href="#">ListKnowledgeItems</a>	Grants permission to list knowledge items	List	<a href="#">agentspace*</a>		
<a href="#">ListPendingMessages</a>	Grants permission to list pending messages	List	<a href="#">agentspace*</a>		
<a href="#">ListRecommendations</a>	Grants permission to list recommendations	List	<a href="#">agentspace*</a>		
<a href="#">ListServices</a>	Grants permission to list services	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">agentspace</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListWebhooks</a>	Grants permission to list webhooks for association	List	<a href="#">agentspace*</a>		
			<a href="#">associations*</a>		
<a href="#">RegisterService</a>	Grants permission to register specific service	Write	<a href="#">service*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">SearchServiceAccessibleResource</a>	Grants permission to look up a registered service accessible resources	Read			
<a href="#">SendMessage</a>	Grants permission to send chat messages	Write	<a href="#">agentspace*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">agentspace</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">agentspace</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgentSpace</a>	Grants permission to update agentspace	Write	<a href="#">agentspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAssociation</a>	Grants permission to update association	Write	<a href="#">agentspace*</a> <a href="#">associations*</a>		
<a href="#">UpdateBacklogTask</a>	Grants permission to update a task	Write	<a href="#">agentspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateGoal</a>	Grants permission to update a goal	Write	<a href="#">agentspace*</a>		
<a href="#">UpdateKnowledgeItem</a>	Grants permission to update a knowledge item	Write	<a href="#">agentspace*</a>		
<a href="#">UpdateOperatorAppConfig</a>	Grants permission to update the external Identity Provider configuration for the Operator App	Write	<a href="#">agentspace*</a>		
<a href="#">UpdateRecommendation</a>	Grants permission to update a recommendation	Write	<a href="#">agentspace*</a>		
<a href="#">ValidateAwsAssociations</a>	Grants permission to validate aws association	Write	<a href="#">agentspace*</a>		

## Resource types defined by AWS DevOps Agent Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">agentspace</a>	arn:\${Partition}:aidevops:\${Region}:\${Account}:agentspace/\${AgentSpaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">associations</a>	arn:\${Partition}:aidevops:\${Region}:\${Account}:agentspace/\${AgentSpaceId}/associations/\${AssociationId}	
<a href="#">service</a>	arn:\${Partition}:aidevops:\${Region}:\${Account}:service/\${ServiceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS DevOps Agent Service

AWS DevOps Agent Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon DevOps Guru

Amazon DevOps Guru (service prefix: `devops-guru`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon DevOps Guru](#)
- [Resource types defined by Amazon DevOps Guru](#)
- [Condition keys for Amazon DevOps Guru](#)

### Actions defined by Amazon DevOps Guru

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddNotificationChannel</a>	Grants permission to add a notification channel to DevOps Guru	Write	<a href="#">topic*</a>		sns:GetTopicAttributes  sns:SetTopicAttributes



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInsight</a>	Grants permission to delete specified insight in your account	Write			
<a href="#">DescribeAccountHealth</a>	Grants permission to view the health of operations in your AWS account	Read			
<a href="#">DescribeAccountOverview</a>	Grants permission to view the health of operations within a time range in your AWS account	Read			
<a href="#">DescribeAnomaly</a>	Grants permission to list the details of a specified anomaly	Read			
<a href="#">DescribeEventSourcesConfig</a>	Grants permission to retrieve details about event sources for DevOps Guru	Read			
<a href="#">DescribeFeedback</a>	Grants permission to view the feedback details of a specified insight	Read			
<a href="#">DescribeInsight</a>	Grants permission to list the details of a specified insight	Read			
<a href="#">DescribeOrganizationHealth</a>	Grants permission to view the health of operations in your organization	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeOrganizationOverview</a>	Grants permission to view the health of operations within a time range in your organization	Read			
<a href="#">DescribeOrganizationResourceCollectionHealth</a>	Grants permission to view the health of operations for each AWS CloudFormation stack or AWS Services or accounts specified in DevOps Guru in your organization	Read			
<a href="#">DescribeResourceCollectionHealth</a>	Grants permission to view the health of operations for each AWS CloudFormation stack specified in DevOps Guru	Read			
<a href="#">DescribeServiceIntegration</a>	Grants permission to view the integration status of services that can be integrated with DevOps Guru	Read			
<a href="#">GetCostEstimation</a>	Grants permission to list service resource cost estimates	Read			
<a href="#">GetResourceCollection</a>	Grants permission to list AWS CloudFormation stacks that DevOps Guru is configured to use	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAnomaliesForInsights</a>	Grants permission to list anomalies of a given insight in your account	List		<a href="#">devops-guru:ServiceNames</a>	
<a href="#">ListAnomalousLogGroups</a>	Grants permission to list log anomalies of a given insight in your account	List			
<a href="#">ListEvents</a>	Grants permission to list resource events that are evaluated by DevOps Guru	List			
<a href="#">ListInsights</a>	Grants permission to list insights in your account	List			
<a href="#">ListMonitoredResources</a>	Grants permission to list resource monitored by DevOps Guru in your account	List			
<a href="#">ListNotificationChannels</a>	Grants permission to list notification channels configured for DevOps Guru in your account	List			
<a href="#">ListOrganizationInsights</a>	Grants permission to list insights in your organization	List			
<a href="#">ListRecommendations</a>	Grants permission to list a specified insight's recommendations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFeedback</a>	Grants permission to submit a feedback to DevOps Guru	Write			
<a href="#">RemoveNotificationChannel</a>	Grants permission to remove a notification channel from DevOps Guru	Write	<a href="#">topic*</a>		sns:GetTopicAttributes  sns:SetTopicAttributes
<a href="#">SearchInsights</a>	Grants permission to search insights in your account	List		<a href="#">devops-guru:ServiceNames</a>	
<a href="#">SearchOrganizationInsights</a>	Grants permission to search insights in your organization	List			
<a href="#">StartCostEstimation</a>	Grants permission to start the creation of an estimate of the monthly cost	Read			
<a href="#">UpdateEventSourcesConfig</a>	Grants permission to update an event source for DevOps Guru	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateResourceCollection</a>	Grants permission to update the list of AWS CloudFormation stacks that are used to specify which AWS resources in your account are analyzed by DevOps Guru	Write			
<a href="#">UpdateServiceIntegration</a>	Grants permission to enable or disable a service that integrates with DevOps Guru	Write			

## Resource types defined by Amazon DevOps Guru

The following resource types are defined by this service and can be used in the `Resource` element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">topic</a>	<code>arn:\${Partition}:sns:\${Region}:\${Account}:\${TopicName}</code>	

## Condition keys for Amazon DevOps Guru

Amazon DevOps Guru defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">devops-guru:ServiceNames</a>	Filters access by API to restrict access to given AWS service names	ArrayOfString

## Actions, resources, and condition keys for AWS Diagnostic tools

AWS Diagnostic tools (service prefix: `ts`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Diagnostic tools](#)
- [Resource types defined by AWS Diagnostic tools](#)
- [Condition keys for AWS Diagnostic tools](#)

## Actions defined by AWS Diagnostic tools

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExecution</a>	Grants permission to get details about specific	Read	<a href="#">execution</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	execution within AWS Diagnostic tools				
<a href="#">GetExecutionOutput</a>	Grants permission to get details about specific execution output within AWS Diagnostic tools	Read	<a href="#">execution*</a>		
<a href="#">GetTool</a>	Grants permission to get details about specific tool within AWS Diagnostic tools	Read	<a href="#">tool*</a>		
<a href="#">ListExecutions</a>	Grants permission to list all available execution within AWS Diagnostic tools	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an AWS Diagnostic tools resource	Read	<a href="#">execution*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListTools</a>	Grants permission to list all available tools within AWS Diagnostic tools	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartExecution</a>	Grants permission to start an execution workflow of specific tool within AWS Diagnostic tools	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">TagResource</a>	Grants permission to tag an AWS Diagnostic tools resource	Tagging	<a href="#">execution*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag an AWS Diagnostic tools resource	Tagging	<a href="#">execution*</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Diagnostic tools

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">execution</a>	arn:\${Partition}:ts::\${Account}:execution/\${UserId}/\${ToolId}/\${ExecutionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tool</a>	arn:\${Partition}:ts::aws:tool/\${ToolId}	

## Condition keys for AWS Diagnostic tools

AWS Diagnostic tools defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Direct Connect

AWS Direct Connect (service prefix: `directconnect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Direct Connect](#)
- [Resource types defined by AWS Direct Connect](#)
- [Condition keys for AWS Direct Connect](#)

## Actions defined by AWS Direct Connect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptDirectConnectGatewayAssociationProposal</a>	Grants permission to accept a proposal request to attach a virtual private gateway to a Direct Connect gateway	Write	<a href="#">dx-gateway*</a>		
<a href="#">AllocateConnectionOnInterconnect</a>	Grants permission to create a hosted connection on an interconnect	Write	<a href="#">dxcon*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllocateHostedConnection</a>	Grants permission to create a new hosted connection between a AWS Direct Connect partner's network and a specific AWS Direct Connect location	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AllocatePrivateVirtualInterface</a>	Grants permission to provision a private virtual interface to be owned by a different customer	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AllocatePublicVirtualInterface</a>	Grants permission to provision a public virtual interface to be owned by a different customer	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllocateTransitVirtualInterface</a>	Grants permission to provision a transit virtual interface to be owned by a different customer	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AssociateConnectionWithLag</a>	Grants permission to associate a connection with a LAG	Write	<a href="#">dxcon*</a> <a href="#">dxlag*</a>		
<a href="#">AssociateHostedConnection</a>	Grants permission to associate a hosted connection and its virtual interfaces with a link aggregation group (LAG) or interconnect	Write	<a href="#">dxcon*</a> <a href="#">dxcon</a> <a href="#">dxlag</a>		
<a href="#">AssociateMacSecKey</a>	Grants permission to associate a MAC Security (MACsec) Connection Key Name (CKN)/ Connectivity Association Key (CAK) pair with an AWS Direct Connect dedicated connection	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>		
<a href="#">AssociateVirtualInterface</a>	Grants permission to associate a virtual interface with a specified link aggregation group (LAG) or connection	Write	<a href="#">dxvif*</a> <a href="#">dxcon</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dxlag</a>		
<a href="#">ConfirmConnection</a>	Grants permission to confirm the creation of a hosted connection on an interconnect	Write	<a href="#">dxcon*</a>		
<a href="#">ConfirmCustomerAgreement</a>	Grants permission to confirm the the terms of agreement when creating the connection or link aggregation group (LAG)	Write			
<a href="#">ConfirmPrivateVirtualInterface</a>	Grants permission to accept ownership of a private virtual interface created by another customer	Write	<a href="#">dxvif*</a>		
<a href="#">ConfirmPublicVirtualInterface</a>	Grants permission to accept ownership of a public virtual interface created by another customer	Write	<a href="#">dxvif*</a>		
<a href="#">ConfirmTransitVirtualInterface</a>	Grants permission to accept ownership of a transit virtual interface created by another customer	Write	<a href="#">dxvif*</a>		
<a href="#">CreateBGPPeer</a>	Grants permission to create a BGP peer on the specified virtual interface	Write	<a href="#">dxvif*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnection</a>	Grants permission to create a new connection between the customer network and a specific AWS Direct Connect location	Write	<a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDirectConnectGateway</a>	Grants permission to create a Direct Connect gateway, which is an intermediate object that enables you to connect a set of virtual interfaces and virtual private gateways	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDirectConnectGatewayAssociation</a>	Grants permission to create an association between a Direct Connect gateway and a virtual private gateway	Write	<a href="#">dx-gateway*</a>		
<a href="#">CreateDirectConnectGatewayAssociationProposal</a>	Grants permission to create a proposal to associate the specified virtual private gateway with the specified Direct Connect gateway	Write	<a href="#">dx-gateway*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInterconnect</a>	Grants permission to create a new interconnect between a AWS Direct Connect partner's network and a specific AWS Direct Connect location	Write	<a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLag</a>	Grants permission to create a link aggregation group (LAG) with the specified number of bundled physical connections between the customer network and a specific AWS Direct Connect location	Write	<a href="#">dxcon</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePrivateVirtualInterface</a>	Grants permission to create a new private virtual interface	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePublicVirtualInterface</a>	Grants permission to create a new public virtual interface	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTransitVirtualInterface</a>	Grants permission to create a new transit virtual interface	Write	<a href="#">dxcon</a>  <a href="#">dxlag</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteBGPPeer</a>	Grants permission to delete the specified BGP peer on the specified virtual interface with the specified customer address and ASN	Write	<a href="#">dxvif*</a>		
<a href="#">DeleteConnection</a>	Grants permission to delete the connection	Write	<a href="#">dxcon*</a>		
<a href="#">DeleteDirectConnectGateway</a>	Grants permission to delete the specified Direct Connect gateway	Write	<a href="#">dx-gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDirectConnectGatewayAssociation</a>	Grants permission to delete the association between the specified Direct Connect gateway and virtual private gateway	Write	<a href="#">dx-gateway*</a>		
<a href="#">DeleteDirectConnectGatewayAssociationProposal</a>	Grants permission to delete the association proposal request between the specified Direct Connect gateway and virtual private gateway	Write			
<a href="#">DeleteInterconnect</a>	Grants permission to delete the specified interconnect	Write	<a href="#">dxcon*</a>		
<a href="#">DeleteLag</a>	Grants permission to delete the specified link aggregation group (LAG)	Write	<a href="#">dxlag*</a>		
<a href="#">DeleteVirtualInterface</a>	Grants permission to delete a virtual interface	Write	<a href="#">dxvif*</a>		
<a href="#">DescribeConnectionLoa</a>	Grants permission to describe the LOA-CFA for a Connection	Read	<a href="#">dxcon*</a>		
<a href="#">DescribeConnections</a>	Grants permission to describe all connections in this region	Read	<a href="#">dxcon</a>		
<a href="#">DescribeConnectionsOnInterconnect</a>	Grants permission to describe a list of connections that have been provisioned on the given interconnect	Read	<a href="#">dxcon*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCustomerMetadata</a>	Grants permission to view a list of customer agreements, along with their signed status and whether the customer is an NNIPartner, NNIPartnerV2, or a nonPartner	Read			
<a href="#">DescribeDirectConnectGatewayAssociationProposals</a>	Grants permission to describe one or more association proposals for connection between a virtual private gateway and a Direct Connect gateway	Read	<a href="#">dx-gateway</a>		
<a href="#">DescribeDirectGatewayAssociations</a>	Grants permission to describe the associations between your Direct Connect gateways and virtual private gateways	Read	<a href="#">dx-gateway</a>		
<a href="#">DescribeDirectGatewayAttachments</a>	Grants permission to describe the attachments between your Direct Connect gateways and virtual interfaces	Read	<a href="#">dx-gateway</a>		
<a href="#">DescribeDirectGateways</a>	Grants permission to describe all your Direct Connect gateways or only the specified Direct Connect gateway	Read	<a href="#">dx-gateway</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeHostedConnections</a>	Grants permission to describe the hosted connections that have been provisioned on the specified interconnect or link aggregation group (LAG)	Read	<a href="#">dxcon</a> <a href="#">dxlag</a>		
<a href="#">DescribeInterconnectLoa</a>	Grants permission to describe the LOA-CFA for an Interconnect	Read	<a href="#">dxcon*</a>		
<a href="#">DescribeInterconnects</a>	Grants permission to describe a list of interconnects owned by the AWS account	Read	<a href="#">dxcon</a>		
<a href="#">DescribeLags</a>	Grants permission to describe all your link aggregation groups (LAG) or the specified LAG	Read	<a href="#">dxlag</a>		
<a href="#">DescribeLoa</a>	Grants permission to describe the LOA-CFA for a connection, interconnect, or link aggregation group (LAG)	Read	<a href="#">dxcon</a> <a href="#">dxlag</a>		
<a href="#">DescribeLocations</a>	Grants permission to describe the list of AWS Direct Connect locations in the current AWS region	Read			
<a href="#">DescribeRouterConfiguration</a>	Grants permission to describe Details about the router for a virtual interface	Read	<a href="#">dxvif*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTags</a>	Grants permission to describe the tags associated with the specified AWS Direct Connect resources	Read	<a href="#">dx-gateway</a> <a href="#">dxcon</a> <a href="#">dxlag</a> <a href="#">dxvif</a>		
<a href="#">DescribeVirtualGateways</a>	Grants permission to describe a list of virtual private gateways owned by the AWS account	Read			
<a href="#">DescribeVirtualInterfaces</a>	Grants permission to describe all virtual interfaces for an AWS account	Read	<a href="#">dxcon</a> <a href="#">dxlag</a> <a href="#">dxvif</a>		
<a href="#">DisassociateConnectionFromLag</a>	Grants permission to disassociate a connection from a link aggregation group (LAG)	Write	<a href="#">dxcon*</a> <a href="#">dxlag*</a>		
<a href="#">DisassociateMacSecKey</a>	Grants permission to remove the association between a MAC Security (MACsec) security key and an AWS Direct Connect dedicated connection	Write	<a href="#">dxcon</a> <a href="#">dxlag</a>		
<a href="#">ListVirtualInterfaceTestHistory</a>	Grants permission to list the virtual interface failover test history	List	<a href="#">dxvif*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartBgpFailoverTest</a>	Grants permission to start the virtual interface failover test that verifies your configuration meets your resiliency requirements by placing the BGP peering session in the DOWN state. You can then send traffic to verify that there are no outages	Write	<a href="#">dxvif*</a>		
<a href="#">StopBgpFailoverTest</a>	Grants permission to stop the virtual interface failover test	Write	<a href="#">dxvif*</a>		
<a href="#">TagResource</a>	Grants permission to add the specified tags to the specified AWS Direct Connect resource. Each resource can have a maximum of 50 tags	Tagging	<a href="#">dx-gateway</a> <a href="#">dxcon</a> <a href="#">dxlag</a> <a href="#">dxvif</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from the specified AWS Direct Connect resource	Tagging	<a href="#">dx-gateway</a> <a href="#">dxcon</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dxlag</a>		
			<a href="#">dxvif</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnection</a>	Grants permission to update the AWS Direct Connect dedicated connection configuration. You can update the following parameters for a connection: The connection name or The connection's MAC Security (MACsec) encryption mode	Write	<a href="#">dxcon*</a>		
<a href="#">UpdateDirectConnectGateway</a>	Grants permission to update the name of a Direct Connect gateway	Write	<a href="#">dx-gateway*</a>		
<a href="#">UpdateDirectConnectGatewayAssociation</a>	Grants permission to update the specified attributes of the Direct Connect gateway association	Write			
<a href="#">UpdateLag</a>	Grants permission to update the attributes of the specified link aggregation group (LAG)	Write	<a href="#">dxlag*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateVirtualInterfaceAttributes</a>	Grants permission to update the specified attributes of the specified virtual private interface	Write	<a href="#">dxvif*</a>		

## Resource types defined by AWS Direct Connect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">dxcon</a>	arn:\${Partition}:directconnect:\${Region}:\${Account}:dxcon/\${ConnectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dxlag</a>	arn:\${Partition}:directconnect:\${Region}:\${Account}:dxlag/\${LagId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dxvif</a>	arn:\${Partition}:directconnect:\${Region}:\${Account}:dxvif/\${VirtualInterfaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dx-gateway</a>	arn:\${Partition}:directconnect:::\${Account}:dx-gateway/\${DirectConnectGatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Direct Connect

AWS Direct Connect defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Directory Service

AWS Directory Service (service prefix: `ds`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Directory Service](#)
- [Resource types defined by AWS Directory Service](#)
- [Condition keys for AWS Directory Service](#)

## Actions defined by AWS Directory Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptShareDirectory</a>	Grants permission to accept a directory sharing request that was sent from the directory owner account	Write	<a href="#">directory</a> *		
<a href="#">AccessDirectoryData</a> [permission only]	Grants permission to access directory data using the Directory Service Data API	Permissions management	<a href="#">directory</a> *		
<a href="#">AddIpRoutes</a>	Grants permission to add a CIDR address block to correctly route traffic to and from your Microsoft AD on Amazon Web Services	Write	<a href="#">directory</a> *		ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:DescribeSecurityGroups
<a href="#">AddRegion</a>	Grants permission to add two domain controllers in	Write	<a href="#">directory</a> *		ec2:AuthorizeSecurity

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	the specified Region for the specified directory				ityGroupEgress ec2:AuthorizeSecurityGroupIngress ec2:CreateNetworkInterface ec2:CreateSecurityGroup ec2:CreateTags ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToResource</a>	Grants permission to add or overwrite one or more tags for the specified Amazon Directory Services directory	Tagging	<a href="#">directory</a> * -		ec2:CreateTags
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AuthorizeApplication</a> [permission only]	Grants permission to authorize an application for your AWS Directory	Write	<a href="#">directory</a> * -		
<a href="#">CancelSchemaExtension</a>	Grants permission to cancel an in-progress schema extension to a Microsoft AD directory	Write	<a href="#">directory</a> * -		
<a href="#">CheckAlias</a> [permission only]	Grants permission to verify that the alias is available for use	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ConnectDirectory</a>	Grants permission to create an AD Connector to connect to an on-premises directory	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateSecurityGroup  ec2:CreateTags  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets  ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAlias</a>	Grants permission to create an alias for a directory and assigns the alias to the directory	Write	<a href="#">directory</a> * -		
<a href="#">CreateComputer</a>	Grants permission to create a computer account in the specified directory, and joins the computer to the directory	Write	<a href="#">directory</a> * -		
<a href="#">CreateConditionalForwarder</a>	Grants permission to create a conditional forwarder associated with your AWS directory	Write	<a href="#">directory</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDirectory</a>	Grants permission to create a Simple AD directory	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateSecurityGroup  ec2:CreateTags  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets  ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHybridAD</a>	Grants permission to create a Hybrid Managed AD directory	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateNetworkInterfacePermission  ec2:CreateSecurityGroup  ec2:CreateTags  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeVpcs iam:CreateServiceLinkedRole iam:GetRole secretsmanager:DescribeSecret secretsmanager:GetSecretValue ssm:GetCommandInvocation ssm:GetConnectionStatus ssm:ListCommands ssm:SendCommand

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIdentityPoolDirectory</a> [permission only]	Grants permission to create an IdentityPool Directory in the AWS cloud	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLogSubscription</a>	Grants permission to create a subscription to forward real time Directory Service domain controller security logs to the specified CloudWatch log group in your AWS account	Write	<a href="#">directory*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMicrosoftAD</a>	Grants permission to create a Microsoft AD in the AWS cloud	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateSecurityGroup  ec2:CreateTags  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets  ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSnapshot</a>	Grants permission to create a snapshot of a Simple AD or Microsoft AD directory in the AWS cloud	Write	<a href="#">directory</a> * -		
<a href="#">CreateTrust</a>	Grants permission to initiate the creation of the AWS side of a trust relationship between a Microsoft AD in the AWS cloud and an external domain	Write	<a href="#">directory</a> * -		
<a href="#">DeleteDirectoryAssessment</a>	Grants permission to delete a directory assessment	Write			
<a href="#">DeleteConditionalForwarder</a>	Grants permission to delete a conditional forwarder that has been set up for your AWS directory	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDirectory</a>	Grants permission to delete an AWS Directory Service directory	Write	<a href="#">directory</a> * -		ec2:DeleteNetworkInterface  ec2:DeleteSecurityGroup  ec2:DescribeNetworkInterfaces  ec2:RevokeSecurityGroupEgress  ec2:RevokeSecurityGroupIngress
<a href="#">DeleteLogSubscription</a>	Grants permission to delete the specified log subscription	Write	<a href="#">directory</a> * -		
<a href="#">DeleteSnapshot</a>	Grants permission to delete a directory snapshot	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTrust</a>	Grants permission to delete an existing trust relationship between your Microsoft AD in the AWS cloud and an external domain	Write	<a href="#">directory</a> * -		
<a href="#">DeregisterCertificate</a>	Grants permission to delete from the system the certificate that was registered for a secured LDAP connection	Write	<a href="#">directory</a> * -		
<a href="#">DeregisterEventTopic</a>	Grants permission to remove the specified directory as a publisher to the specified SNS topic	Write	<a href="#">directory</a> * -		
<a href="#">DescribeADAssessment</a>	Grants permission to describe a directory assessment	Read			
<a href="#">DescribeCAEnrollmentPolicy</a>	Grants permission to describe the CA enrollment status of a specified directory	Read	<a href="#">directory</a> * -		
<a href="#">DescribeCertificate</a>	Grants permission to display information about the certificate registered for a secured LDAP connection	Read	<a href="#">directory</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClientAuthenticationSettings</a>	Grants permission to retrieve information about the type of client authentication for the specified directory, if the type is specified. If no type is specified, information about all client authentication types that are supported for the specified directory is retrieved . Currently, only SmartCard is supported	Read	<a href="#">directory</a> * -		
<a href="#">DescribeConditionalForwarders</a>	Grants permission to obtain information about the conditional forwarders for this account	Read	<a href="#">directory</a> * -		
<a href="#">DescribeDirectories</a>	Grants permission to obtain information about the directories that belong to this account	List			
<a href="#">DescribeDirectoryDataAccess</a>	Grants permission to describe the Directory Service Data API status for the specified directory	Read	<a href="#">directory</a> * -		
<a href="#">DescribeDomainControllers</a>	Grants permission to provide information about any domain controllers in your directory	Read	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEventTopics</a>	Grants permission to obtain information about which SNS topics receive status messages from the specified directory	Read	<a href="#">directory</a> * -		
<a href="#">DescribeHybridADUpdate</a>	Grants permission to describe the updates of a specified hybrid directory	Read	<a href="#">directory</a> * -		
<a href="#">DescribeLDAPSettings</a>	Grants permission to describe the status of LDAP security for the specified directory	Read	<a href="#">directory</a> * -		
<a href="#">DescribeRegions</a>	Grants permission to provide information about the Regions that are configured for multi-Region replication	Read	<a href="#">directory</a> * -		
<a href="#">DescribeSettings</a>	Grants permission to retrieve information about the configurable settings for the specified directory	Read	<a href="#">directory</a> * -		
<a href="#">DescribeSharedDirectories</a>	Grants permission to return the shared directories in your account	Read	<a href="#">directory</a> * -		
<a href="#">DescribeSnapshots</a>	Grants permission to obtain information about the directory snapshots that belong to this account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTrusts</a>	Grants permission to obtain information about the trust relationships for this account	Read			
<a href="#">DescribeUpdateDirectory</a>	Grants permission to describe the updates of a directory for a particular update type	Read	<a href="#">directory</a> *		
<a href="#">DisableCAEnrollmentPolicy</a>	Grants permission to disable the ca enrollment of a specified directory	Write	<a href="#">directory</a> *		
<a href="#">DisableClientAuthentication</a>	Grants permission to disable alternative client authentication methods for the specified directory	Write	<a href="#">directory</a> *		
<a href="#">DisableDirectoryDataAccess</a>	Grants permission to disable the Directory Service Data API for the specified directory	Write	<a href="#">directory</a> *		
<a href="#">DisableLDAPAPS</a>	Grants permission to deactivate LDAP secure calls for the specified directory	Write	<a href="#">directory</a> *		
<a href="#">DisableRadius</a>	Grants permission to disable multi-factor authentication (MFA) with the Remote Authentication Dial In User Service (RADIUS) server for an AD Connector directory	Write	<a href="#">directory</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableRoleAccess</a> [permission only]	Grants permission to disable AWS Management Console access for identity in your AWS Directory	Write	<a href="#">directory</a> * -		
<a href="#">DisableSso</a>	Grants permission to disable single-sign on for a directory	Write	<a href="#">directory</a> * -		
<a href="#">EnableCAEnrollmentPolicy</a>	Grants permission to enable the ca enrollment of a specified directory	Write	<a href="#">directory</a> * -		acm-pca:DescribeCertificateAuthority  pca-connector-ad:GetConnector
<a href="#">EnableClientAuthentication</a>	Grants permission to enable alternative client authentication methods for the specified directory	Write	<a href="#">directory</a> * -		
<a href="#">EnableDirectoryDataAccess</a>	Grants permission to enable the Directory Service Data API for the specified directory	Write	<a href="#">directory</a> * -		
<a href="#">EnableLDAPPS</a>	Grants permission to activate the switch for the specific directory to always use LDAP secure calls	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableRadius</a>	Grants permission to enable multi-factor authentication (MFA) with the Remote Authentication Dial In User Service (RADIUS) server for an AD Connector directory	Write	<a href="#">directory</a> *		
<a href="#">EnableRoleAccess</a> [permission only]	Grants permission to enable AWS Management Console access for identity in your AWS Directory	Write	<a href="#">directory</a> *		iam:PassRole
<a href="#">EnableSso</a>	Grants permission to enable single-sign on for a directory	Write	<a href="#">directory</a> *		
<a href="#">GetAuthorizedApplicationDetails</a> [permission only]	Grants permission to retrieve the details of the authorized applications on a directory	Read	<a href="#">directory</a> *		
<a href="#">GetDirectoryLimits</a>	Grants permission to obtain directory limit information for the current region	Read			
<a href="#">GetSnapshotLimits</a>	Grants permission to obtain the manual snapshot limits for a directory	Read	<a href="#">directory</a> *		
<a href="#">ListADAssessments</a>	Grants permission to list directory assessments	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAuthorizedApplications</a> [permission only]	Grants permission to obtain the AWS applications authorized for a directory	Read	<a href="#">directory</a> * -		
<a href="#">ListCertificates</a>	Grants permission to list all the certificates registered for a secured LDAP connection, for the specified directory	List	<a href="#">directory</a> * -		
<a href="#">ListIpRoutes</a>	Grants permission to list the address blocks that you have added to a directory	Read	<a href="#">directory</a> * -		
<a href="#">ListLogSubscriptions</a>	Grants permission to list the active log subscriptions for the AWS account	Read			
<a href="#">ListSchemaExtensions</a>	Grants permission to list all schema extensions applied to a Microsoft AD Directory	List	<a href="#">directory</a> * -		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags on an Amazon Directory Services directory	Read	<a href="#">directory</a> * -		
<a href="#">RegisterCertificate</a>	Grants permission to register a certificate for secured LDAP connection	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterEventTopic</a>	Grants permission to associate a directory with an SNS topic	Write	<a href="#">directory</a> * -		sns:GetTopicAttributes
<a href="#">RejectShareDirectory</a>	Grants permission to reject a directory sharing request that was sent from the directory owner account	Write	<a href="#">directory</a> * -		
<a href="#">RemoveIpRoutes</a>	Grants permission to remove IP address blocks from a directory	Write	<a href="#">directory</a> * -		
<a href="#">RemoveReplication</a>	Grants permission to stop all replication and removes the domain controllers from the specified Region. You cannot remove the primary Region with this operation	Write	<a href="#">directory</a> * -		
<a href="#">RemoveTagsFromResource</a>	Grants permission to remove tags from an Amazon Directory Services directory	Tagging	<a href="#">directory</a> * -		ec2:DeleteTags
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetUserPassword</a>	Grants permission to reset the password for any user in your AWS Managed Microsoft AD or Simple AD directory	Write	<a href="#">directory</a> * -		
<a href="#">RestoreFromSnapshot</a>	Grants permission to restore a directory using an existing directory snapshot	Write	<a href="#">directory</a> * -		
<a href="#">ShareDirectory</a>	Grants permission to share a specified directory in your AWS account (directory owner) with another AWS account (directory consumer) . With this operation you can use your directory from any AWS account and from any Amazon VPC within an AWS Region	Write	<a href="#">directory</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartADAssessment</a>	Grants permission to start a directory assessment	Write			ec2:AuthorizeSecurityGroupEgress ec2:AuthorizeSecurityGroupIngress ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:CreateSecurityGroup ec2>DeleteNetworkInterface ec2>DeleteSecurityGroup ec2:DescribeNetwork

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kInterfac es  ec2:Descr ibeSubnet s  ec2:Descr ibeVpcs  ssm:GetCo mmandInvo cation  ssm:GetCo nnectionS tatus  ssm:ListC ommands  ssm:SendC ommand
<a href="#">StartSchemaExtension</a>	Grants permission to apply a schema extension to a Microsoft AD directory	Write	<a href="#">directory</a> *		
<a href="#">UnauthorizeApplication</a> [permission only]	Grants permission to unauthorize an application from your AWS Directory	Write	<a href="#">directory</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnshareDirectory</a>	Grants permission to stop the directory sharing between the directory owner and consumer accounts	Write	<a href="#">directory</a> * -		
<a href="#">UpdateAuthorizedApplication</a> [permission only]	Grants permission to update an authorized application for your AWS Directory	Write	<a href="#">directory</a> * -		
<a href="#">UpdateConditionalForwarder</a>	Grants permission to update a conditional forwarder that has been set up for your AWS directory	Write	<a href="#">directory</a> * -		
<a href="#">UpdateDirectory</a> [permission only]	Grants permission to update the configurations like service account credentials or DNS server IP addresses for the specified directory	Write	<a href="#">directory</a> * -		
<a href="#">UpdateDirectorySetup</a>	Grants permission to update the directory for a particular update type	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateHybridAD</a>	Grants permission to update configurations for a specified hybrid directory	Write	<a href="#">directory</a> * -		ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateNetworkInterfacePermission  ec2:CreateSecurityGroup  ec2:CreateTags  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeVpcs secretsmanager:DescribeSecret secretsmanager:GetSecretValue ssm:GetCommandInvocation ssm:GetConnectionStatus ssm:ListCommands ssm:SendCommand

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNumberOfDomainControllers</a>	Grants permission to add or remove domain controllers to or from the directory. Based on the difference between current value and new value (provided through this API call), domain controllers will be added or removed. It may take up to 45 minutes for any new domain controllers to become fully active once the requested number of domain controllers is updated. During this time, you cannot make another update request	Write	<a href="#">directory</a> * -		
<a href="#">UpdateRadius</a>	Grants permission to update the Remote Authentication Dial In User Service (RADIUS) server information for an AD Connector directory	Write	<a href="#">directory</a> * -		
<a href="#">UpdateSettings</a>	Grants permission to update the configurable settings for the specified directory	Write	<a href="#">directory</a> * -		
<a href="#">UpdateTrust</a>	Grants permission to update the trust that has been set up between your AWS Managed Microsoft AD directory and an on-premises Active Directory	Write	<a href="#">directory</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">VerifyTrust</a>	Grants permission to verify a trust relationship between your Microsoft AD in the AWS cloud and an external domain	Read	<a href="#">directory</a> *		

## Resource types defined by AWS Directory Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">directory</a>	arn:\${Partition}:ds:\${Region}:\${Account}:directory/\${DirectoryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Directory Service

AWS Directory Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the value of the request to AWS DS	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the AWS DS Resource being acted upon	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Directory Service Data

AWS Directory Service Data (service prefix: ds-data) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Directory Service Data](#)
- [Resource types defined by AWS Directory Service Data](#)
- [Condition keys for AWS Directory Service Data](#)

## Actions defined by AWS Directory Service Data

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddGroupMember</a>	Grants permission to add a member to a group on a directory	Write	<a href="#">directory</a> * -	<a href="#">ds-data:SAccountName</a>  <a href="#">ds-data:MemberName</a>  <a href="#">ds-data:Realm</a>  <a href="#">ds-data:MemberRealm</a>  <a href="#">ds-data:Identifier</a>	ds:AccessDSDData
<a href="#">CreateGroup</a>	Grants permission to create a group on a directory	Write	<a href="#">directory</a> * -	<a href="#">ds-data:SAccountName</a>  <a href="#">ds-data:Identifier</a>  <a href="#">ds-data:Realm</a>	ds:AccessDSDData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUser</a>	Grants permission to create a user on a directory	Write	<a href="#">directory</a> * -		ds:AccessDSData
				<a href="#">ds-data:SAMAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	
<a href="#">DeleteGroup</a>	Grants permission to delete a group on a directory	Write	<a href="#">directory</a> * -		ds:AccessDSData
				<a href="#">ds-data:SAMAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	
<a href="#">DeleteUser</a>	Grants permission to delete a user on a directory	Write	<a href="#">directory</a> * -		ds:AccessDSData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ds-data:SAMAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	
<a href="#">DescribeGroup</a>	Grants permission to describe a group on a directory	Read	<a href="#">directory*</a>		ds:AccessDSDData
<a href="#">DescribeUser</a>	Grants permission to describe a user on a directory	Read	<a href="#">directory*</a>	<a href="#">ds-data:SAMAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	ds:AccessDSDData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ds-data:SAMAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	
<a href="#">DisableUser</a>	Grants permission to disable a user on a directory	Write	<a href="#">directory</a> * -		ds:AccessDSDData
				<a href="#">ds-data:SAMAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	
<a href="#">ListGroupMembers</a>	Grants permission to list members in a group on a directory	List	<a href="#">directory</a> * -		ds:AccessDSDData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ds-data:SAccountName</a> <a href="#">ds-data:Realm</a> <a href="#">ds-data:MemberRealm</a> <a href="#">ds-data:Identifier</a>	
<a href="#">ListGroups</a>	Grants permission to list groups on a directory	List	<a href="#">directory*</a>		ds:AccessDSData
				<a href="#">ds-data:Realm</a>	
<a href="#">ListGroupForMember</a>	Grants permission to list the groups that a member is in on a directory	List	<a href="#">directory*</a>		ds:AccessDSData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ds-data:SAccountName</a> <a href="#">ds-data:Realm</a> <a href="#">ds-data:MemberRealm</a> <a href="#">ds-data:Identifier</a>	
<a href="#">ListUsers</a>	Grants permission to list users on a directory	List	<a href="#">directory*</a>		ds:AccessDSData
				<a href="#">ds-data:Realm</a>	
<a href="#">RemoveGroupMember</a>	Grants permission to remove a member from a group on a directory	Write	<a href="#">directory*</a>		ds:AccessDSData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ds-data:SAccountName</a> <a href="#">ds-data:MemberName</a> <a href="#">ds-data:Realm</a> <a href="#">ds-data:MemberRealm</a> <a href="#">ds-data:Identifier</a>	
<a href="#">SearchGroups</a>	Grants permission to search for groups on a directory	Read	<a href="#">directory*</a>	<a href="#">ds-data:DescribeGroup</a> <a href="#">ds:AccessDSData</a>	<a href="#">ds-data:Realm</a>



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchUsers</a>	Grants permission to search for users on a directory	Read	<a href="#">directory</a> * -		ds-data:DescribeUser  ds:AccessDSDData
				<a href="#">ds-data:Realm</a>	
<a href="#">UpdateGroup</a>	Grants permission to update a group on a directory	Write	<a href="#">directory</a> * -		ds:AccessDSDData
				<a href="#">ds-data:SAMAccountName</a>  <a href="#">ds-data:Identifier</a>  <a href="#">ds-data:Realm</a>	
<a href="#">UpdateUser</a>	Grants permission to update a user on a directory	Write	<a href="#">directory</a> * -		ds:AccessDSDData

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ds-data:SAccountName</a> <a href="#">ds-data:Identifier</a> <a href="#">ds-data:Realm</a>	

## Resource types defined by AWS Directory Service Data

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">directory</a>	arn:\${Partition}:ds:\${Region}:\${Account}:directory/\${DirectoryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Directory Service Data

AWS Directory Service Data defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the AWS DS Resource being acted upon	String
<a href="#">ds-data:Identifier</a>	Filters access by the type of identifier provided in the request (i.e. SAM Account Name)	String
<a href="#">ds-data:MemberName</a>	Filters access by the directory SAM Account Name included in the MemberName input of the request	String
<a href="#">ds-data:MemberRealm</a>	Filters access by the directory realm name included in the MemberRealm input of the request	String
<a href="#">ds-data:Realm</a>	Filters access by the directory realm name for the request	String
<a href="#">ds-data:SAMAccountName</a>	Filters access by the directory SAM Account Name included in the SAMAccountName input of the request	String

## Actions, resources, and condition keys for Amazon DocumentDB Elastic Clusters

Amazon DocumentDB Elastic Clusters (service prefix: `docdb-elastic`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon DocumentDB Elastic Clusters](#)
- [Resource types defined by Amazon DocumentDB Elastic Clusters](#)
- [Condition keys for Amazon DocumentDB Elastic Clusters](#)

## Actions defined by Amazon DocumentDB Elastic Clusters

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApplyPendingMaintenanceAction</a>	Grants permission to apply pending maintenance actions on Amazon DocDB-Elastic cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CopyClusterSnapshot</a>	Grants permission to copy a new Amazon DocDB-Elastic cluster snapshot	Write	<a href="#">cluster-snapshot*</a>		docdb-elastic:CreateClusterSnapshot kms:CreateGrant kms:Decrypt kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kms:GenerateDataKey
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create a new Amazon DocDB-Elastic cluster	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateVpcEndpoint ec2:DeleteVpcEndpoints ec2:DescribeAvailabilityZones ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ModifyVpcEndpoint
					iam:CreateServiceLinkedRole
					kms:CreateGrant
					kms:Decrypt
					kms:DescribeKey
					kms:GenerateDataKey
					secretsmanager:DescribeSecret
					secretsmanager:GetResourcePolicy
					secretsmanager:Get



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					SecretValue  secretsmanager:ListSecretVersionIds  secretsmanager:ListSecrets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateClusterSnapshot</a>	Grants permission to create a new Amazon DocDB-Elastic cluster snapshot	Write	<a href="#">cluster*</a>		ec2:CreateVpcEndpoint ec2:DeleteVpcEndpoints ec2:DescribeAvailabilityZones ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ModifyVpcEndpoint iam:CreateServiceLinkedRole kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey secretsmanager:DescribeSecret secretsmanager:GetResourcePolicy secretsmanager:Get

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					SecretValue  secretsmanager:ListSecretVersionIds  secretsmanager:ListSecrets
			<a href="#">cluster-snapshot*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCluster</a>	Grants permission to delete a cluster	Write	<a href="#">cluster*</a>		ec2:DeleteVpcEndpoints ec2:DescribeAvailabilityZones ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs ec2:ModifyVpcEndpoint

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteClusterSnapshot</a>	Grants permission to delete a cluster snapshot	Write	<a href="#">cluster-snapshot*</a>		ec2:DeleteVpcEndpoints  ec2:DescribeAvailabilityZones  ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcAttributes  ec2:DescribeVpcEndpoints  ec2:DescribeVpcs  ec2:ModifyVpcEndpoint

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetCluster</a>	Grants permission to view details about a cluster	Read	<a href="#">cluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetClusterSnapshot</a>	Grants permission to view details about a cluster snapshot	Read	<a href="#">cluster-snapshot*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetPendingMaintenanceAction</a>	Grants permission to view details about pending maintenance actions on Amazon DocDB-Elastic cluster	Read	<a href="#">cluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListClusterSnapshots</a>	Grants permission to list the cluster snapshots in your account	List			
<a href="#">ListClusters</a>	Grants permission to list the clusters in your account	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPendingMaintenanceActions</a>	Grants permission to list details about pending maintenance actions on any Amazon DocDB-Elastic cluster	List		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a>	Grants permission to lists tag for an DocumentDB Elastic resource	List	<a href="#">cluster</a>		
			<a href="#">cluster-snapshot</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreClusterFromSnapshot</a>	Grants permission to restore cluster from a Amazon DocDB-Elastic cluster snapshot	Write	<a href="#">cluster*</a>		docdb-elastic:CreateCluster  ec2:CreateVpcEndpoint  ec2:DeleteVpcEndpoints  ec2:DescribeAvailabilityZones  ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcAttributes  ec2:DescribeVpcEndpoints

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeVpcs
					ec2:ModifyVpcEndpoint
					iam:CreateServiceLinkedRole
					kms:CreateGrant
					kms:Decrypt
					kms:DescribeKey
					kms:GenerateDataKey
					secretsmanager:DescribeSecret
					secretsmanager:GetResourcePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:GetSecretValue  secretsmanager:ListSecretVersionIds  secretsmanager:ListSecrets
<a href="#">StartCluster</a>	Grants permission to start a stopped Amazon DocDB-Elastic cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopCluster</a>	Grants permission to stop an existing Amazon DocDB-Elastic cluster	Write	<a href="#">cluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag an DocumentDB Elastic resource	Tagging	<a href="#">cluster</a>		
			<a href="#">cluster-snapshot</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a DocumentDB Elastic resource	Tagging	<a href="#">cluster</a>		
			<a href="#">cluster-snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCluster</a>	Grants permission to modify a cluster	Write	<a href="#">cluster*</a>		ec2:CreateVpcEndpoint ec2:DeleteVpcEndpoints ec2:DescribeAvailabilityZones ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:ModifyVpcEndpoint kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey secretsmanager:DescribeSecret secretsmanager:GetResourcePolicy secretsmanager:GetSecretValue secretsmanager:List



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					tSecretVersionIds secretsmanager:ListSecrets
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon DocumentDB Elastic Clusters

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:docdb-elastic:\${Region}:\${Account}:cluster/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cluster-snapshot</a>	arn:\${Partition}:docdb-elastic:\${Region}:\${Account}:cluster-snapshot/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon DocumentDB Elastic Clusters

Amazon DocumentDB Elastic Clusters defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the set of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the set of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the set of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon DynamoDB

Amazon DynamoDB (service prefix: `dynamodb`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon DynamoDB](#)
- [Resource types defined by Amazon DynamoDB](#)
- [Condition keys for Amazon DynamoDB](#)

## Actions defined by Amazon DynamoDB

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateTableReplica</a> [permission only]	Grants permission to create multi account global table replica	Write	<a href="#">table*</a>		
<a href="#">BatchGetItem</a>	Grants permission to return the attributes of one or more items from one or more tables	Read	<a href="#">table*</a>	<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">dynamodb&gt;Select</a>	
<a href="#">BatchWriteItem</a>	Grants permission to put or delete multiple items in one or more tables	Write	<a href="#">table*</a>	<a href="#">dynamodb:Attribute</a> <a href="#">s</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a>	
<a href="#">ConditionCheckItem</a>	Grants permission to the ConditionCheckItem operation checks the existence of a set of attributes for the item with the given primary key	Read	<a href="#">table*</a>	<a href="#">dynamodb:AttributeSet</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">dynamodb:ReturnValues</a>	
<a href="#">CreateBackup</a>	Grants permission to create a backup for an existing table	Write	<a href="#">table*</a>		
<a href="#">CreateGlobalTable</a>	Grants permission to create a global table from an existing table	Write	<a href="#">global-table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGlobalTableWitness</a> [permission only]	Grants permission to add a Witness to a Global Table	Write	<a href="#">table*</a>		
<a href="#">CreateTable</a>	Grants permission to the CreateTable operation adds a new table to your account	Write	<a href="#">table*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTableReplica</a> [permission only]	Grants permission to add a new replica table	Write	<a href="#">table*</a>		
<a href="#">DeleteBackup</a>	Grants permission to delete an existing backup of a table	Write	<a href="#">backup*</a>		
<a href="#">DeleteGlobalTableWitness</a> [permission only]	Grants permission to remove a Witness from a Global Table	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteItem</a>	Grants permission to delete a single item in a table by primary key	Write	<a href="#">table*</a>	<a href="#">dynamodb:Attribute</a> <a href="#">_s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">city</a> <a href="#">dynamodb:ReturnValues</a> <a href="#">ues</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the resource-based policy attached to the resource	Permissions management	<a href="#">stream*</a> <a href="#">table*</a>		
<a href="#">DeleteTable</a>	Grants permission to the DeleteTable operation which deletes a table and all of its items	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTableReplica</a> [permission only]	Grants permission to delete a replica table and all of its items	Write	<a href="#">table*</a>		
<a href="#">DescribeBackup</a>	Grants permission to describe an existing backup of a table	Read	<a href="#">backup*</a>		
<a href="#">DescribeContinuousBackups</a>	Grants permission to check the status of the backup restore settings on the specified table	Read	<a href="#">table*</a>		
<a href="#">DescribeContributorInsights</a>	Grants permission to describe the contributor insights status and related details for a given table or global secondary index	Read	<a href="#">table*</a> <a href="#">index</a>		
<a href="#">DescribeEndpoints</a>	Grants permission to return the regional endpoint information	Read			
<a href="#">DescribeExport</a>	Grants permission to describe an existing Export of a table	Read	<a href="#">export*</a>		
<a href="#">DescribeGlobalTable</a>	Grants permission to return information about the specified global table	Read	<a href="#">global-table*</a>		
<a href="#">DescribeGlobalTableSettings</a>	Grants permission to return settings information about the specified global table	Read	<a href="#">global-table*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImport</a>	Grants permission to describe an existing import	Read	<a href="#">import*</a>		
<a href="#">DescribeKinesisStreamingDestination</a>	Grants permission to grant permission to describe the status of Kinesis streaming and related details for a given table	Read	<a href="#">table*</a>		
<a href="#">DescribeLimits</a>	Grants permission to return the current provisioned-capacity limits for your AWS account in a region, both for the region as a whole and for any one DynamoDB table that you create there	Read			
<a href="#">DescribeReservedCapacity</a> [permission only]	Grants permission to describe one or more of the Reserved Capacity purchased	Read			
<a href="#">DescribeReservedCapacityOfferings</a> [permission only]	Grants permission to describe Reserved Capacity offerings that are available for purchase	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStream</a>	Grants permission to return information about a stream, including the current status of the stream, its Amazon Resource Name (ARN), the composition of its shards, and its corresponding DynamoDB table	Read	<a href="#">stream*</a>		
<a href="#">DescribeTable</a>	Grants permission to return information about the table	Read	<a href="#">table*</a>		
<a href="#">DescribeTableReplicaAutoScaling</a>	Grants permission to describe the auto scaling settings across all replicas of the global table	Read	<a href="#">table*</a>		
<a href="#">DescribeTimeToLive</a>	Grants permission to give a description of the Time to Live (TTL) status on the specified table	Read	<a href="#">table*</a>		
<a href="#">DisableKinesisStreamingDestination</a>	Grants permission to grant permission to stop replication from the DynamoDB table to the Kinesis data stream	Write	<a href="#">table*</a>		
<a href="#">EnableKinesisStreamingDestination</a>	Grants permission to grant permission to start table data replication to the specified Kinesis data stream at a timestamp chosen during the enable workflow	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportTableToPointInTime</a>	Grants permission to initiate an Export of a DynamoDB table to S3	Write	<a href="#">table*</a>		
<a href="#">GetAbacus</a> [permission only]	Grants permission to view the status of Attribute Based Access Control for the account	Read			
<a href="#">GetItem</a>	Grants permission to the GetItem operation that returns a set of attributes for the item with the given primary key	Read	<a href="#">table*</a>	<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">dynamodb&gt;Select</a>	
<a href="#">GetRecords</a>	Grants permission to retrieve the stream records from a given shard	Read	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourcePolicy</a>	Grants permission to view a resource-based policy for a resource	Read	<a href="#">stream*</a> <a href="#">table*</a>		
<a href="#">GetShardIterator</a>	Grants permission to return a shard iterator	Read	<a href="#">stream*</a>		
<a href="#">ImportTable</a>	Grants permission to initiate an import from S3 to a DynamoDB table	Write	<a href="#">table*</a>		
<a href="#">InjectError</a> [permission only]	Grants permission to start experiments on a Global Table	Write		<a href="#">dynamodb:FisActionId</a> <a href="#">dynamodb:FisTargetArns</a>	
<a href="#">ListBackups</a>	Grants permission to list backups associated with the account and endpoint	List			
<a href="#">ListContributorInsights</a>	Grants permission to list the ContributorInsightsSummary for all tables and global secondary indexes associated with the current account and endpoint	List			
<a href="#">ListExports</a>	Grants permission to list exports associated with the account and endpoint	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGlobalTables</a>	Grants permission to list all global tables that have a replica in the specified region	List			
<a href="#">ListImports</a>	Grants permission to list imports associated with the account and endpoint	List			
<a href="#">ListStreams</a>	Grants permission to return an array of stream ARNs associated with the current account and endpoint	Read			
<a href="#">ListTables</a>	Grants permission to return an array of table names associated with the current account and endpoint	List			
<a href="#">ListTagsOfResource</a>	Grants permission to list all tags on an Amazon DynamoDB resource	Read	<a href="#">table*</a>		
<a href="#">PartiQLDelete</a>	Grants permission to delete a single item in a table by primary key	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnValues</a>	
<a href="#">PartiQLInsert</a>	Grants permission to create a new item, if an item with same primary key does not exist in the table	Write	<a href="#">table*</a>	<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a>	
<a href="#">PartiQLSelect</a>	Grants permission to read a set of attributes for items from a table or index	Read	<a href="#">table*</a> <a href="#">index</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:FullTableScan</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb&gt;Select</a>	
<a href="#">PartiQLUpdate</a>	Grants permission to edit an existing item's attributes	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnValues</a>	
<a href="#">PurchaseReservedCapacityOfferings</a> [permission only]	Grants permission to purchase reserved capacity for use with your account	Write			
<a href="#">PutItem</a>	Grants permission to create a new item, or replace an old item with a new item	Write	<a href="#">table*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">dynamodb:ReturnValues</a>	
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource-based policy to the resource	Permissions management	<a href="#">stream*</a> <a href="#">table*</a>		
<a href="#">Query</a>	Grants permission to use the primary key of a table or a secondary index to directly access items from that table or index	Read	<a href="#">table*</a> <a href="#">index</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">dynamodb:ReturnValues</a> <a href="#">dynamodb:Select</a>	
<a href="#">ReadDataForReplication</a> [permission only]	Grants permission to read data from a multi account global table replica	Read	<a href="#">table*</a>		
<a href="#">ReplicateSettings</a> [permission only]	Grants permission to configure settings for a multi account global table replica	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreTableFromAWSBackup</a> [permission only]	Grants permission to create a new table from recovery point on AWS Backup	Write	<a href="#">table*</a>		
<a href="#">RestoreTableFromBackup</a>	Grants permission to create a new table from an existing backup	Write	<a href="#">backup*</a>		dynamodb:BatchWriteItem dynamodb:DeleteItem dynamodb:GetItem dynamodb:PutItem dynamodb:Query dynamodb:Scan dynamodb:UpdateItem
			<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreTableToPointInTime</a>	Grants permission to restore a table to a point in time	Write	<a href="#">table*</a>		dynamodb:BatchWriteItem  dynamodb:DeleteItem  dynamodb:GetItem  dynamodb:PutItem  dynamodb:Query  dynamodb:Scan  dynamodb:UpdateItem
<a href="#">Scan</a>	Grants permission to return one or more items and item attributes by accessing every item in a table or a secondary index	Read	<a href="#">table*</a>  <a href="#">index</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dynamodb:Attribute</a> <a href="#">s</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">dynamodb:ReturnValues</a> <a href="#">dynamodb:Select</a>	
<a href="#">StartAwsBackupJob</a> [permission only]	Grants permission to create a backup on AWS Backup with advanced features enabled	Write	<a href="#">table*</a>		
<a href="#">TagResource</a>	Grants permission to associate a set of tags with an Amazon DynamoDB resource	Tagging	<a href="#">table*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to remove the association of tags from an Amazon DynamoDB resource	Tagging	<a href="#">table*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAttributeStatus</a> [permission only]	Grants permission to update the status of Attribute Based Access Control for the account	Permissions management			
<a href="#">UpdateContinuousBackups</a>	Grants permission to enable or disable continuous backups	Write	<a href="#">table*</a>		
<a href="#">UpdateContributorInsights</a>	Grants permission to update the status for contributor insights for a specific table or global secondary index	Write	<a href="#">table*</a> <a href="#">index</a>		
<a href="#">UpdateGlobalTable</a>	Grants permission to add or remove replicas in the specified global table	Write	<a href="#">global-table*</a> <a href="#">table*</a>		
<a href="#">UpdateGlobalTableSettings</a>	Grants permission to update settings of the specified global table	Write	<a href="#">global-table*</a> <a href="#">table*</a>		
<a href="#">UpdateGlobalTableVersion</a> [permission only]	Grants permission to update version of the specified global table	Write	<a href="#">global-table*</a> <a href="#">table</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateItem</a>	Grants permission to edit an existing item's attributes, or adds a new item to the table if it does not already exist	Write	<a href="#">table*</a>	<a href="#">dynamodb:Attribute</a> <a href="#">_s</a> <a href="#">dynamodb:EnclosingOperation</a> <a href="#">dynamodb:LeadingKeys</a> <a href="#">_ys</a> <a href="#">dynamodb:ReturnConsumedCapacity</a> <a href="#">_city</a> <a href="#">dynamodb:ReturnValues</a> <a href="#">_ues</a>	
<a href="#">UpdateKinesisStreamingDestination</a>	Grants permission to update data replication configurations for the specified Kinesis data stream	Write	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTable</a>	Grants permission to modify the provisioned throughput settings, global secondary indexes, or DynamoDB Streams settings for a given table	Write	<a href="#">table*</a>		
<a href="#">UpdateTableReplicaAutoScaling</a>	Grants permission to update auto scaling settings on your replica table	Write	<a href="#">table*</a>		
<a href="#">UpdateTimeToLive</a>	Grants permission to enable or disable TTL for the specified table	Write	<a href="#">table*</a>		
<a href="#">WriteDataForReplication</a> [permission only]	Grants permission to write data to a multi account global table replica	Write	<a href="#">table*</a>		

## Resource types defined by Amazon DynamoDB

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">index</a>	arn:\${Partition}:dynamodb:\${Region}:\${Account}:table/\${TableName}/index/\${IndexName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stream</a>	arn:\${Partition}:dynamodb:\${Region}:\${Account}:table/\${TableName}/stream/\${StreamLabel}	
<a href="#">table</a>	arn:\${Partition}:dynamodb:\${Region}:\${Account}:table/\${TableName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">backup</a>	arn:\${Partition}:dynamodb:\${Region}:\${Account}:table/\${TableName}/backup/\${BackupName}	
<a href="#">export</a>	arn:\${Partition}:dynamodb:\${Region}:\${Account}:table/\${TableName}/export/\${ExportName}	
<a href="#">global-table</a>	arn:\${Partition}:dynamodb::\${Account}:global-table/\${GlobalTableName}	
<a href="#">import</a>	arn:\${Partition}:dynamodb:\${Region}:\${Account}:table/\${TableName}/import/\${ImportName}	

## Condition keys for Amazon DynamoDB

Amazon DynamoDB defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

**Note**

For information about how to use context keys to refine DynamoDB access using an IAM policy, see [Using IAM Policy Conditions for Fine-Grained Access Control](#) in the *Amazon DynamoDB Developer Guide*.

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">dynamodb:Attributes</a>	Filters access by attribute (field or column) names of the table	ArrayOfString
<a href="#">dynamodb:EnclosingOperation</a>	Filters access by blocking Transactions APIs calls and allow the non-Transaction APIs calls and vice-versa	String
<a href="#">dynamodb:FirstPartitionKeyValues</a>	Filters access by the first partition key of the table	ArrayOfString
<a href="#">dynamodb:FisActionId</a>	Filters access by the ID of an AWS FIS action	String
<a href="#">dynamodb:FisTargetArns</a>	Filters access by the ARN of an AWS FIS target	ArrayOfARN

Condition keys	Description	Type
<a href="#">dynamodb:FourthPartitionKeyValues</a>	Filters access by the forth partition key of the table	ArrayOfString
<a href="#">dynamodb:FullTableScan</a>	Filters access by blocking full table scan	Bool
<a href="#">dynamodb:LeadingKeys</a>	Filters access by the first partition key of the table	ArrayOfString
<a href="#">dynamodb:ReturnConsumedCapacity</a>	Filters access by the ReturnConsumedCapacity parameter of a request. Contains either "TOTAL" or "NONE"	String
<a href="#">dynamodb:ReturnValues</a>	Filters access by the ReturnValues parameter of request. Contains one of the following: "ALL_OLD", "UPDATED_OLD", "ALL_NEW", "UPDATED_NEW", or "NONE"	String
<a href="#">dynamodb:SecondPartitionKeyValues</a>	Filters access by the second partition key of the table	ArrayOfString
<a href="#">dynamodb:Select</a>	Filters access by the Select parameter of a Query or Scan request	String
<a href="#">dynamodb:ThirdPartitionKeyValues</a>	Filters access by the third partition key of the table	ArrayOfString

## Actions, resources, and condition keys for Amazon DynamoDB Accelerator (DAX)

Amazon DynamoDB Accelerator (DAX) (service prefix: dax) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon DynamoDB Accelerator \(DAX\)](#)
- [Resource types defined by Amazon DynamoDB Accelerator \(DAX\)](#)
- [Condition keys for Amazon DynamoDB Accelerator \(DAX\)](#)

## Actions defined by Amazon DynamoDB Accelerator (DAX)


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetItem</a>	Grants permission to return the attributes of one or more items from one or more tables	Read	<a href="#">application*</a>		
<a href="#">BatchWriteItem</a>	Grants permission to put or delete multiple items in one or more tables	Write	<a href="#">application*</a>		
<a href="#">ConditionCheckItem</a>	Grants permission to the ConditionCheckItem operation that checks the existence of a set of attributes for the item with the given primary key	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create a DAX cluster	Write	<a href="#">application*</a>		dax:CreateParameterGroup dax:CreateSubnetGroup ec2:CreateNetworkInterface ec2>DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs iam:GetRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:PassRole
<a href="#">CreateParameterGroup</a>	Grants permission to create a parameter group	Write			
<a href="#">CreateSubnetGroup</a>	Grants permission to create a subnet group	Write			
<a href="#">DecreaseReplicationFactor</a>	Grants permission to remove one or more nodes from a DAX cluster	Write	<a href="#">application*</a>		
<a href="#">DeleteCluster</a>	Grants permission to delete a previously provisioned DAX cluster	Write	<a href="#">application*</a>		
<a href="#">DeleteItem</a>	Grants permission to delete a single item in a table by primary key	Write	<a href="#">application*</a>	<a href="#">dax:EnclosingOperation</a>	
<a href="#">DeleteParameterGroup</a>	Grants permission to delete the specified parameter group	Write			
<a href="#">DeleteSubnetGroup</a>	Grants permission to delete a subnet group	Write			
<a href="#">DescribeClusters</a>	Grants permission to return information about all provisioned DAX clusters	List	<a href="#">application</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDefaultParameters</a>	Grants permission to return the default system parameter information for DAX	List			
<a href="#">DescribeEvents</a>	Grants permission to return events related to DAX clusters and parameter groups	List			
<a href="#">DescribeParameterGroups</a>	Grants permission to return a list of parameter group descriptions	List			
<a href="#">DescribeParameters</a>	Grants permission to return the detailed parameter list for a particular parameter group	Read			
<a href="#">DescribeSubnetGroups</a>	Grants permission to return a list of subnet group descriptions	List			
<a href="#">GetItem</a>	Grants permission to the GetItem operation that returns a set of attributes for the item with the given primary key	Read	<a href="#">application*</a>	<a href="#">dax:EnclosingOperation</a>	
<a href="#">IncreaseReplicationFactor</a>	Grants permission to add one or more nodes to a DAX cluster	Write	<a href="#">application*</a>		
<a href="#">ListTags</a>	Grants permission to return a list all of the tags for a DAX cluster	Read	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutItem</a>	Grants permission to create a new item, or replace an old item with a new item	Write	<a href="#">application*</a>		
				<a href="#">dax:EnclosingOperation</a>	
<a href="#">Query</a>	Grants permission to use the primary key of a table or a secondary index to directly access items from that table or index	Read	<a href="#">application*</a>		
<a href="#">RebootNode</a>	Grants permission to reboot a single node of a DAX cluster	Write	<a href="#">application*</a>		
<a href="#">Scan</a>	Grants permission to return one or more items and item attributes by accessing every item in a table or a secondary index	Read	<a href="#">application*</a>		
<a href="#">TagResource</a>	Grants permission to associate a set of tags with a DAX resource	Tagging	<a href="#">application*</a>		
<a href="#">UntagResource</a>	Grants permission to remove the association of tags from a DAX resource	Tagging	<a href="#">application*</a>		
<a href="#">UpdateCluster</a>	Grants permission to modify the settings for a DAX cluster	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateItem</a>	Grants permission to edit an existing item's attributes, or adds a new item to the table if it does not already exist	Write	<a href="#">application*</a>	<a href="#">dax:EnclosingOperation</a>	
<a href="#">UpdateParameterGroup</a>	Grants permission to modify the parameters of a parameter group	Write			
<a href="#">UpdateSubnetGroup</a>	Grants permission to modify an existing subnet group	Write			

## Resource types defined by Amazon DynamoDB Accelerator (DAX)

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:dax:\${Region}:\${Account}:cache/\${ClusterName}	

## Condition keys for Amazon DynamoDB Accelerator (DAX)

Amazon DynamoDB Accelerator (DAX) defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions

under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">dax:EnclosingOperation</a>	Used to block Transactions APIs calls and allow the non-Transaction APIs calls and vice-versa	String

## Actions, resources, and condition keys for Amazon EC2

Amazon EC2 (service prefix: ec2) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EC2](#)
- [Resource types defined by Amazon EC2](#)
- [Condition keys for Amazon EC2](#)

## Actions defined by Amazon EC2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAddressTransfer</a>	Grants permission to accept an Elastic IP address transfer	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:Region</a>	ec2:CreateTags
<a href="#">AcceptCapacityReservationBillingOwnership</a>	Grants permission to accept assign billing of the available capacity of a shared Capacity Reservation to the calling account	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:CapacityReservationFleet</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:CreateDate</a> <a href="#">ec2:DestinationCapacityReservationId</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:EndDate</a> <a href="#">ec2:EndDateType</a> <a href="#">ec2:InstanceCount</a> <a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptReservedInstancesExchangeQuote</a>	Grants permission to accept a Convertible Reserved Instance exchange quote	Write	<a href="#">reserved-instances</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:InstanceType</a>  <a href="#">ec2:ReservedInstancesOfferingType</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	





Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptTransitGatewayPeeringAttachment</a>	Grants permission to accept a transit gateway peering attachment request	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
<a href="#">AcceptTransitGatewayVpcAttachment</a>	Grants permission to accept a request to attach a VPC to a transit gateway	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">AcceptVpcEndpointConnections</a>	Grants permission to accept one or more interface VPC endpoint connections to your VPC endpoint service	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptVpcPeeringConnection</a>	Grants permission to accept a VPC peering connection request	Write	<p><a href="#">vpc*</a></p>	<p> <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a> </p>	
			<p> <a href="#">vpc-peering-connection*</a> </p>	<p> <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpcPeeringConnectionID</a> </p>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">AdvertiseByoipCidr</a>	Grants permission to advertise an IP address range that is provisioned for use in AWS through bring your own IP addresses (BYOIP)	Write		<a href="#">ec2:Region</a>	
<a href="#">AllocateAddress</a>	Grants permission to allocate an Elastic IP address (EIP) to your account	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv4pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllocateHosts</a>	Grants permission to allocate a Dedicated Host to your account	Write	<a href="#">dedicated-host*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AutoPlacement</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:HostRecovery</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:Quantity</a> <a href="#">ec2:Region</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllocateIpamPoolCidr</a>	Grants permission to allocate a CIDR from an Amazon VPC IP Address Manager (IPAM) pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApplySecurityGroupToClientVpnTargetNetwork</a>	Grants permission to apply a security group to the association between a Client VPN endpoint and a target network	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamIPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssignIpv6Addresses</a>	Grants permission to assign one or more IPv6 addresses to a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssignPrivateIpAddresses</a>	Grants permission to assign one or more secondary private IP addresses to a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssignPrivateNatGatewayAddress</a>	Grants permission to assign one or more secondary private IP addresses to a private NAT gateway	Write	<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	
<a href="#">AssociateAddress</a>	Grants permission to associate an Elastic IP address (EIP) with an instance or a network interface	Write	<a href="#">elastic-ip</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AllocationId</a>  <a href="#">ec2:Domain</a>  <a href="#">ec2:PublicIpAddress</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateCapacityReservationBillingOwner</a>	Grants permission to assign billing of the unused capacity of a shared Capacity Reservation to a consumer account	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CapacityReservationFleet</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:DestinationCapacityReservationId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateClientVpnTargetNetwork</a>	Grants permission to associate a target network with a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamIProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>	
				<a href="#">ec2:Region</a>	
<a href="#">Associate DhcpOptions</a>	Grants permission to associate or disassociate a set of DHCP options with a VPC	Write	<a href="#">dhcp-options*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:DhcpOptionsID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
<a href="#">AssociateEnclaveCertificateIamRole</a>	Grants permission to associate an ACM certificate with an IAM role to be used in an EC2 Enclave	Write	<a href="#">certificate*</a>  <a href="#">role*</a>	<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateIamInstanceProfile</a>	Grants permission to associate an IAM instance profile with a running or stopped instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:NewInstanceProfile</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">AssociateInstanceEventWindow</a>	Grants permission to associate one or more targets with an event window	Write	<a href="#">instance-event-window*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate IpamByoasn</a>	Grants permission to associate an Autonomous System Number (ASN) with a BYOIP CIDR	Write		<a href="#">ec2:Region</a>	
<a href="#">Associate IpamResourceDiscovery</a>	Grants permission to associate an IPAM resource discovery with an Amazon VPC IPAM	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-resource-discovery-association*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AssociateNatGatewayAddress</a>	Grants permission to associate an Elastic IP address and private IP address with a public Nat gateway	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AllocationId</a>  <a href="#">ec2:Domain</a>  <a href="#">ec2:PublicIpAddress</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">AssociateRouteServer</a>	Grants permission to associate a route server with a VPC	Write	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Ipv4IamPoolId</a> <a href="#">ec2:Ipv6IamPoolId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateRouteTable</a>	Grants permission to associate a subnet or gateway with a route table	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">internet-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:InternetGatewayID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv4pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">Associate SecurityGroupVpc</a>	Grants permission to associate a security group with another VPC in the same Region	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Ipv4IamPoolId</a> <a href="#">ec2:Ipv6IamPoolId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateSubnetCidrBlock</a>	Grants permission to associate a CIDR block with a subnet	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:Ipv6IpamPoolId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate TransitGatewayMulticastDomain</a>	Grants permission to associate an attachment and list of subnets with a transit gateway multicast domain	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate TransitGatewayPolicyTable</a>	Grants permission to associate a policy table with a transit gateway attachment	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-policy-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate TransitGatewayRouteTable</a>	Grants permission to associate an attachment with a transit gateway route table	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateTrunkInterface</a>	Grants permission to associate a branch network interface with a trunk network interface	Write		<a href="#">ec2:Region</a>	
<a href="#">AssociateVerifiedAccessInstanceWebACL</a> [permission only]	Grants permission to associate an AWS Web Application Firewall (WAF) web access control list (ACL) with a Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	<a href="#">ec2:Region</a>



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate VpcCidrBlock</a>	Grants permission to associate a CIDR block with a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a> <a href="#">ec2:Ipv4I pampoolId</a> <a href="#">ec2:Ipv6I pampoolId</a> <a href="#">ec2:ResourceTag/ \${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a> <a href="#">ec2:ResourceTag/ \${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv6pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">AttachApplianceToNatGateway</a> [permission only]	Grants permission to attach an appliance with a public/private Natgateway	Permissions management	<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachClassicLinkVpc</a>	Grants permission to link an EC2-Classic instance to a ClassicLink-enabled VPC through one or more of the VPC's security groups	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
			<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
<a href="#">AttachInternetGateway</a>	Grants permission to attach an internet gateway to a VPC	Write	<a href="#">internet-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:InternetGatewayID</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachNetworkInterface</a>	Grants permission to attach a network interface to an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachResourcesToPlacementGroup</a> [permission only]	Grants permission to attach resources to a placement group	Permissions management	<a href="#">placement-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">AttachVerifiedAccessTrustProvider</a>	Grants permission to attach a trust provider to a Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-trust-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachVolume</a>	Grants permission to attach an EBS volume to a running or stopped instance and expose it to the instance with the specified device name	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeOps</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachVpnGateway</a>	Grants permission to attach a virtual private gateway to a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
			<a href="#">vpn-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Authorize ClientVpn Ingress</a>	Grants permission to add an inbound authorization rule to a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">Authorize SecurityGroupEgress</a>	Grants permission to add one or more outbound rules to a VPC security group. Policies using the security-group-rule resource-level permission are only enforced when the API request includes TagSpecifications	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	ec2:CreateTags
			<a href="#">security-group-rule</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Authorize SecurityGroupIngress</a>	Grants permission to add one or more inbound rules to a VPC security group. Policies using the security-group-rule resource-level permission are only enforced when the API request includes TagSpecifications	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	ec2:CreateTags
			<a href="#">security-group-rule</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">BundleInstance</a>	Grants permission to bundle an instance store-backed Windows instance	Write		<a href="#">ec2:Region</a>	
<a href="#">CancelBundleTask</a>	Grants permission to cancel a bundling operation	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelCapacityReservation</a>	Grants permission to cancel a Capacity Reservation and release the reserved capacity	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:CapacityReservationFleet</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CancelCapacityReservationFleets</a>	Grants permission to cancel one or more Capacity Reservation Fleets	Write	<a href="#">capacity-reservation-fleet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	<a href="#">ec2:CancelCapacityReservation</a>
				<a href="#">ec2:Region</a>	
<a href="#">CancelConversionTask</a>	Grants permission to cancel an active conversion task	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelDeclarativePoliciesReport</a>	Grants permission to cancel a declarative policies report	Write	<a href="#">declarative-policies-report*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">CancelExportTask</a>	Grants permission to cancel an active export task	Write	<a href="#">export-image-task</a>  <a href="#">export-instance-task</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">CancelImageLaunchPermission</a>	Grants permission to remove your AWS account from the launch permissions for the specified AMI	Permissions management	<a href="#">image*</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/ \${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelImportTask</a>	Grants permission to cancel an in-process import virtual machine or import snapshot task	Write	<a href="#">import-image-task</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">import-snapshot-task</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CancelReservedInstancesListing</a>	Grants permission to cancel a Reserved Instance listing on the Reserved Instance Marketplace	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelSpotFleetRequests</a>	Grants permission to cancel one or more Spot Fleet requests	Write	<a href="#">spot-fleet-request*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">CancelSpotInstanceRequests</a>	Grants permission to cancel one or more Spot Instance requests	Write	<a href="#">spot-instances-request*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">ConfirmProductInstance</a>	Grants permission to determine whether an owned product code is associated with an instance	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyFpgaImage</a>	Grants permission to copy a source Amazon FPGA image (AFI) to the current Region. Resource-level permissions specified for this action apply to the new AFI only. They do not apply to the source AFI	Write	<a href="#">fpga-image*</a>	<a href="#">ec2:Owner</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CopyImage</a>	Grants permission to copy an Amazon Machine Image (AMI) from a source Region to the current Region	Write	<a href="#">image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	ec2:CreateTags
				<a href="#">aws:TagKeys</a>	
				<a href="#">ec2:ImageID</a>	
				<a href="#">ec2:Owner</a>	
			<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopySnapshots</a>	Grants permission to copy a point-in-time snapshot of an EBS volume and store it in Amazon S3. Resource-level permissions specified for this action apply to both the snapshot copy and the source snapshot	Write	<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:SnapshotsID</a> <a href="#">ec2:SnapshotsTime</a> <a href="#">ec2:VolumeSize</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a> <a href="#">n</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyVolumes</a>	Grants permission to create a copy of an EBS volume. Resource-level permissions specified for this action apply to the source and copied volume. Condition keys for the copied volume correspond to parameters specified in the CopyVolumes API request	Write	<a href="#">volume*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:VolumeInitializationRate</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeElops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
<a href="#">CreateCapacityManagerDataExport</a>	Grants permission to create a new S3 Data Export for Capacity Manager	Write	<a href="#">capacity-manager-data-export*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCapacityReservation</a>	Grants permission to create a Capacity Reservation	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZones</a> <a href="#">ec2:CapacityReservationFleet</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:EndDate</a> <a href="#">ec2:EndDateType</a> <a href="#">ec2:EphemeralStorage</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceCount</a> <a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCapacityReservationBySplitting</a>	Grants permission to create a new Capacity Reservation by splitting the available capacity of the source Capacity Reservation	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CapacityReservationFleet</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:DestinationCapacityReservationId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCapacityReservationFleet</a>	Grants permission to create a Capacity Reservation Fleet	Write	<a href="#">capacity-reservation-fleet*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateCapacityReservation  ec2:CreateTags  ec2:DescribeCapacityReservations  ec2:DescribeInstances
<a href="#">CreateCarrierGateway</a>	Grants permission to create a carrier gateway and provides CSP connectivity to VPC customers	Write	<a href="#">carrier-gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateClientVpnEndpoint</a>	Grants permission to create a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>	
			<a href="#">vpc</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateClientVpnRoute</a>	Grants permission to add a network route to a Client VPN endpoint's route table	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetId</a>	
<a href="#">CreateCoipCidr</a>	Grants permission to create a range of customer-owned IP (CoIP) addresses	Write	<a href="#">coip-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCoipPool</a>	Grants permission to create a pool of customer-owned IP (CoIP) addresses	Write	<a href="#">coip-pool*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
			<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateCoipPoolPermission</a> [permission only]	Grants permission to allow a service to access a customer-owned IP (CoIP) pool	Permissions management	<a href="#">coip-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomerGateway</a>	Grants permission to create a customer gateway, which provides information to AWS about your customer gateway device	Write	<a href="#">customer-gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
<a href="#">CreateDefaultSubnet</a>	Grants permission to create a default subnet in a specified Availability Zone in a default VPC	Write		<a href="#">ec2:Region</a>	
<a href="#">CreateDefaultVpc</a>	Grants permission to create a default VPC with a default subnet in each Availability Zone	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDelegateMacVolumeOwnershipTask</a>	Grants permission to create a volume ownership delegation task for an Apple silicon Mac instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceMarketType</a>  <a href="#">ec2:InstanceMetadataTags</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mac-modification-task*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDhcpOptions</a>	Grants permission to create a set of DHCP options for a VPC	Write	<a href="#">dhcp-options*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:DhcpOptionsID</a>	ec2:CreateTags
<a href="#">CreateEgressOnlyInternetGateway</a>	Grants permission to create an egress-only internet gateway for a VPC	Write	<a href="#">egress-only-internet-gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFleet</a>	Grants permission to launch an EC2 Fleet. Resource-level permissions for this action do not include the resources specified in a launch template. To specify resource-level permissions for resources specified in a launch template, you must include the resources in the RunInstances action statement	Write	<a href="#">fleet*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
			<a href="#">instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceBandwidth</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
			<a href="#">launch-template</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:KmsKeyId</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:VolumeId</a> <a href="#">ec2:VolumeEbs</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFlowLogs</a>	Grants permission to create one or more flow logs to capture IP traffic for a network interface	Write		<a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	
			<a href="#">vpc-flow-log*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags ecs:ListClusters ecs:ListContainerInstances ecs:ListServices ecs:ListTaskDefinitions ecs:ListTasks iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">natgateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">transit-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFpgaImage</a>	Grants permission to create an Amazon FPGA Image (AFI) from a design checkpoint (DCP)	Write	<a href="#">fpga-image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:Region</a>	ec2:CreateTags
<a href="#">CreateImage</a>	Grants permission to create an Amazon EBS-backed AMI from a stopped or running Amazon EBS-backed instance. This action can reboot instances as part of the image creation process, even without RebootInstances permissions. To prevent instance reboots during image creation, use the NoReboot parameter	Write	<a href="#">image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:Owner</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateImageUsageReport</a>	Grants permission to create an AMI usage report	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	ec2:CreateTags
			<a href="#">image-usage-report*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	





Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	
<a href="#">CreateInstanceEventWindow</a>	Grants permission to create an event window in which scheduled events for the associated Amazon EC2 instances can run	Write	<a href="#">instance-event-window*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInstanceExportTask</a>	Grants permission to export a running or stopped instance to an Amazon S3 bucket	Write	<a href="#">export-instance-task*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ProductCode</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">CreateInternetGateway</a>	Grants permission to create an internet gateway for a VPC	Write	<a href="#">internet-gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:InternetGatewayID</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInterruptibleCapacityReservationAllocation</a>	Grants permission to create an interruptible Capacity Reservation by specifying the number of unused instances you want to allocate from your source reservation	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CreateDate</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:EndDate</a> <a href="#">ec2:EndDateType</a> <a href="#">ec2:InstanceCount</a> <a href="#">ec2:InstanceMatchCriteria</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:InterruptibleCapacityReservationId</a> <a href="#">ec2:InterruptionType</a> <a href="#">ec2:IsInterruptible</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:TargetInstanceCount</a> <a href="#">ec2:Tenancy</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">CreateIpam</a>	Grants permission to create an Amazon VPC IP Address Manager (IPAM)	Write	<a href="#">ipam*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags  iam:CreateServiceLinkedRole
				<a href="#">ec2:Region</a>	
<a href="#">CreateIpamExternalResourceVerificationToken</a>	Grants permission to create a verification token, which proves ownership of an external resource	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">ipam-external-resource-verification-token*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIpamPolicy</a>	Grants permission to create a policy in Amazon VPC IP Address Manager (IPAM) that defines rules for allocating public IPv4 addresses from IPAM pools to AWS resources	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">ipam-policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateIpamPool</a>	Grants permission to create an IP address pool for Amazon VPC IP Address Manager (IPAM), which is a collection of contiguous IP address CIDRs	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateIpamPrefixListResolver</a>	Grants permission to create an IPAM prefix list resolver that defines rules for selecting CIDRs to include in prefix lists	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-scope</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">CreateIpamPrefixListResolverTarget</a>	Grants permission to create an IPAM prefix list resolver target that links a resolver to a managed prefix list	Write	<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">ipam-prefix-list-resolver-target*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIpamResourceDiscovery</a>	Grants permission to create an IPAM resource discovery	Write	<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags  iam:CreateServiceLinkedRole
				<a href="#">ec2:Region</a>	
<a href="#">CreateIpamScope</a>	Grants permission to create an Amazon VPC IP Address Manager (IPAM) scope, which is the highest-level container within IPAM	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">ipam-scope*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateKeyPair</a>	Grants permission to create a 2048-bit RSA key pair	Write	<a href="#">key-pair*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:KeyPairType</a> <a href="#">ec2:Region</a>	ec2:CreateTags
<a href="#">CreateLaunchTemplate</a>	Grants permission to create a launch template	Write	<a href="#">launch-template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a>	ec2:CreateTags ssm:GetParameters

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLaunchTemplateVersion</a>	Grants permission to create a new version of a launch template	Write	<a href="#">launch-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ssm:GetParameters
<a href="#">CreateLocalGatewayRoute</a>	Grants permission to create a static route for a local gateway route table	Write	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:NetworkInterfaceID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">prefix-list</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateLocalGatewayRouteTable</a>	Grants permission to create a local gateway route table	Write	<a href="#">local-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">local-gateway-route-table*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLocalGatewayRouteTablePermission</a> [permission only]	Grants permission to allow a service to access a local gateway route table	Permissions management	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">CreateLocalGatewayRouteTableVirtualInterfaceGroupAssociation</a>	Grants permission to create a local gateway route table virtual interface group association	Write	<a href="#">local-gateway-route-table*</a>  <a href="#">local-gateway-route-table-virtual-interface-group-association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateLocalGatewayRouteTableVpcAssociation</a>	Grants permission to associate a VPC with a local gateway route table	Write	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">local-gateway-route-table-vpc-association*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
<a href="#">CreateLocalGatewayVirtualInterface</a>	Grants permission to create a local gateway virtual interface	Write	<a href="#">local-gateway-virtual-interface*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">outpost-lag*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">CreateLocalGatewayVirtualInterfaceGroup</a>	Grants permission to create a local gateway virtual interface group	Write	<a href="#">local-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMacSystemIntegrityProtectionModificationTask</a>	Grants permission to create a System Integrity Protection (SIP) modification task for an Amazon EC2 Mac instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceMarketType</a>  <a href="#">ec2:InstanceMetadataTags</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mac-modification-task*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateManagedPrefixList</a>	Grants permission to create a managed prefix list	Write	<a href="#">prefix-list*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
<a href="#">CreateNatGateway</a>	Grants permission to create a NAT gateway in a subnet	Write	<a href="#">natgateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">elastic-ip</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AllocationId</a>  <a href="#">ec2:Domain</a>  <a href="#">ec2:PublicIpAddress</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Ipv4IamPoolId</a> <a href="#">ec2:Ipv6IamPoolId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	<a href="#">ec2:Region</a>
<a href="#">CreateNetworkAcl</a>	Grants permission to create a network ACL in a VPC	Write	<a href="#">network-acl*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:NetworkAclID</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>  <a href="#">ec2:Region</a>	
<a href="#">CreateNetworkAclEntry</a>	Grants permission to create a numbered entry (a rule) in a network ACL	Write	<a href="#">network-acl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:NetworkAclID</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">CreateNetworkInsightsAccessScope</a>	Grants permission to create a Network Access Scope	Write	<a href="#">network-insights-access-scope*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	
<a href="#">CreateNetworkInsightsPath</a>	Grants permission to create a path to analyze for reachability	Write	<a href="#">network-insights-path*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>  <a href="#">ec2:Tenancy</a>	
			<a href="#">internet-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:InternetGatewayID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	
			<a href="#">vpc-endpoint</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
			<a href="#">vpc-endpoint-service</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-peering-connection</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpcPeeringConnectionID</a>	
			<a href="#">vpn-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNetworkInterfacePermission</a>	Grants permission to create a permission for an AWS-authorized user to perform certain operations on a network interface	Permissions management	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AuthorizedService</a>  <a href="#">ec2:AuthorizedUser</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceID</a>  <a href="#">ec2:Permission</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Vpc</a>	
<a href="#">CreateOdbNetworkPeering</a> [permission only]	Grants permission to allow Oracle Database@AWS to create a peering connection between an ODB network and a VPC	Permissions management	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	<a href="#">ec2:Region</a>



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePlacementGroup</a>	Grants permission to create a placement group	Write	<a href="#">placement-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:PlacementGroupName</a> <a href="#">ec2:PlacementGroupStrategy</a>	ec2:CreateTags
<a href="#">CreatePublicIpv4Pool</a>	Grants permission to create a public IPv4 address pool for public IPv4 CIDRs that you own and bring to Amazon to manage with Amazon VPC IP Address Manager (IPAM)	Write	<a href="#">ipv4pool-ec2*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReplaceRootVolumeTask</a>	Grants permission to create a root volume replacement task	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
			<a href="#">replace-root-volume-task*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateReservedInstancesListing</a>	Grants permission to create a listing for Standard Reserved Instances to be sold in the Reserved Instance Marketplace	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRestoreImageTask</a>	Grants permission to start a task that restores an AMI from an S3 object previously created by using CreateStorageImageTask	Write	<a href="#">image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:Owner</a>	ec2:CreateTags
<a href="#">CreateRoute</a>	Grants permission to create a route in a VPC route table	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RouteTableID</a> <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRouteServer</a>	Grants permission to create a route server	Write	<a href="#">route-server*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateTags  sns:CreateTopic
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRouteServerEndpoint</a>	Grants permission to create a route server endpoint	Write	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:AuthorizeSecurityGroupIngress  ec2:CreateNetworkInterface  ec2:CreateNetworkInterfacePermission  ec2:CreateSecurityGroup  ec2:CreateTags  ec2:DescribeSecurityGroups

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server-endpoint*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a>	
			<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRouteServerPeer</a>	Grants permission to create a route server peer	Write		<a href="#">ec2:Region</a>	
			<a href="#">route-server-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:AuthorizeSecurityGroupIngress  ec2:CreateTags
			<a href="#">route-server-peer*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:AvailabilityZone</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRouteTable</a>	Grants permission to create a route table for a VPC	Write	<a href="#">route-table*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:RouteTableID</a>	ec2:CreateTags
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSecondaryNetwork</a>	Grants permission to create a secondary network	Write	<a href="#">secondary-network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	
<a href="#">CreateSecondarySubnet</a>	Grants permission to create a secondary subnet	Write	<a href="#">secondary-network*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">secondary-subnet*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#"><u>CreateSecurityGroup</u></a>	Grants permission to create a security group	Write	<a href="#"><u>security-group*</u></a>	<a href="#"><u>aws:RequestTag/</u></a> <a href="#"><u>\${TagKey}</u></a>  <a href="#"><u>aws:TagKeys</u></a>  <a href="#"><u>ec2:SecurityGroupID</u></a>	ec2:CreateTags
			<a href="#"><u>vpc</u></a>	<a href="#"><u>aws:ResourceTag/</u></a> <a href="#"><u>\${TagKey}</u></a>  <a href="#"><u>ec2:ResourceTag/</u></a> <a href="#"><u>\${TagKey}</u></a>  <a href="#"><u>ec2:Tenancy</u></a>  <a href="#"><u>ec2:VpcID</u></a>	
				<a href="#"><u>ec2:Region</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSnapshot</a>	Grants permission to create a snapshot of an EBS volume and store it in Amazon S3	Write	<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Location</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SourceAvailabilityZone</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a>	ec2:CreateTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeElops</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSnapshots</a>	Grants permission to create crash-consistent snapshots of multiple EBS volumes and store them in Amazon S3	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CpuOptionsAmdSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>  <a href="#">ec2:InstanceProfile</a>  <a href="#">ec2:InstanceType</a>  <a href="#">ec2:PlacementGroup</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Location</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SourceAvailabilityZone</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">CreateSpotDatafeedSubscription</a>	Grants permission to create a data feed for Spot Instances to view Spot Instance usage logs	Write		<a href="#">ec2:Region</a>	
<a href="#">CreateStorageImageTask</a>	Grants permission to store an AMI as a single object in an S3 bucket	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubnet</a>	Grants permission to create a subnet in a VPC	Write	<a href="#">subnet*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Ipv4PoolId</a>  <a href="#">ec2:Ipv6PoolId</a>  <a href="#">ec2:SubnetID</a>	ec2:CreateTags
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubnetCidrReservation</a>	Grants permission to create a subnet CIDR reservation	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTags</a>	Grants permission to add or overwrite one or more tags for Amazon EC2 resources	Tagging	<a href="#">capacity-block</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">capacity-manager-data-export</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">capacity-reservation</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">capacity-reservation-fleet</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">carrier-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">client-vpn-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ClientRootCertificateChainArn</a> <a href="#">ec2:CloudwatchLogGroupArn</a> <a href="#">ec2:CloudwatchLogStreamArn</a> <a href="#">ec2:DirectoryArn</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:SamLP roviderAr n</a>  <a href="#">ec2:Serve rCertific ateArn</a>	
			<a href="#">coip-pool</a>	<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:Resou rceTag/ \${ TagKey}</a>  <a href="#">aws:TagKe ys</a>  <a href="#">ec2:Resou rceTag/ \${ TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">customer-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">declarative-policies-report</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dedicated-host</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:AutoPlacement</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:HostRecovery</a>  <a href="#">ec2:InstanceType</a>  <a href="#">ec2:Quantity</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dhcp-options</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:DhcpOptionsID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">egress-only-internet-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">elastic-gpu</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ElasticGpuType</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">elastic-ip</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">export-image-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">export- instance- tag</a>	<a href="#">aws:RequestTag/ \${ TagKey}</a>  <a href="#">aws:ResourceTag/ \${ TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/ \${ TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fleet</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fpga-image</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">host-reservation</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image-usage-report</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">import-image-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">import-snapshot-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZones</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwi</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">dthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance-connect-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance-event-window</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">internet-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:InternetGatewayID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam- exte rnal-reso urce-veri fication- token</a>	<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:Resou rceTag/ \${ TagKey}</a>  <a href="#">aws:TagKe ys</a>  <a href="#">ec2:Resou rceTag/ \${ TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-policy</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-pool</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-prefix-list-resolver</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-prefix-list-resolver-target</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-resource-discovery</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-resource-discovery-association</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-scope</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv4pool-ec2</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv6pool-ec2</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">key-pair</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:KeyPairName</a> <a href="#">ec2:KeyPairType</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">launch-template</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-route-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-route-table-virtual-interface-group-association</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-route-table-attachment</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">natgateway</a>	<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-acl</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:NetworkAclID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-access-scope</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-access-scope-analysis</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-analysis</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-path</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AuthorizedUser</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceID</a> <a href="#">ec2:Permission</a> <a href="#">ec2:ResourceTag/</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	
			<a href="#">placement-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:PlacementGroupName</a> <a href="#">ec2:PlacementGroupStrategy</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">prefix-list</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:IpamPrefixListResolverTargetId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">replace-root-volume-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">reserved-instances</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ReservedInstancesOfferingType</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server-peer</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableId</a>  <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-interface</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZones</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-network</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-subnet</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroup</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group-rule</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">spot-fleet-request</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">spot-instances-request</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet-cidr-reservation</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-filter</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-filter-rule</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-session</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitoring</a> <a href="#">get</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachment</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-connect-peer</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayConnectPeerId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-metering-policy</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMeteringPolicyId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-multicast-domain</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMulticastDomainId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-policy-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table-announcement</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-endpoint-tagget</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-in-stance</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-policy</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-trust-provider</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-block-public-access-exclusion</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-encryption-control</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-connection</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-service</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceServiceRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-integration-permission</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-flow-log</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-peering-connection</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpcPeeringConnectionID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-concentrator</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-connection</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AuthenticationType</a> <a href="#">ec2:DPDTIMEOUTSeconds</a> <a href="#">ec2:GatewayType</a> <a href="#">ec2:IKEVersions</a> <a href="#">ec2:InsideTunnelCIDR</a> <a href="#">ec2:InsideTunnelIPv6CIDR</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Phase1DHGroup</a>	
				<a href="#">ec2:Phase1EncryptionAlgorithms</a>	
				<a href="#">ec2:Phase1IntegrityAlgorithms</a>	
				<a href="#">ec2:Phase1LifetimeSeconds</a>	
				<a href="#">ec2:Phase2DHGroup</a>	
				<a href="#">ec2:Phase2EncryptionAlgorithms</a>	
				<a href="#">ec2:Phase2IntegrityAlgorithms</a>	
				<a href="#">ec2:Phase2LifetimeSeconds</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:RekeyFuzzPercentage</a>	
				<a href="#">ec2:RekeyMarginTimeSeconds</a>	
				<a href="#">ec2:ReplyWindowSizePackets</a>	
				<a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:RoutingType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:CreateAction</a> <a href="#">ec2:Region</a>	
<a href="#">CreateTrafficMirrorFilter</a>	Grants permission to create a traffic mirror filter	Write	<a href="#">traffic-mirror-filter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	<a href="#">ec2:CreateTags</a>
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrafficMirrorFilterRule</a>	Grants permission to create a traffic mirror filter rule	Write	<a href="#">traffic-mirror-filter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">traffic-mirror-filter-rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrafficMirrorSession</a>	Grants permission to create a traffic mirror session	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-filter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">traffic-monitor-session*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
			<a href="#">traffic-monitor-target*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrafficMirrorTarget</a>	Grants permission to create a traffic mirror target	Write	<a href="#">traffic-mirror-target*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateTags
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceServiceName</a>  <a href="#">ec2:VpceServiceOwner</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateTransitGateway</a>	Grants permission to create a transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayId</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">CreateTransitGatewayConnect</a>	Grants permission to create a Connect attachment from a specified transit gateway attachment	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:transitGatewayAttachmentId</a>	ec2:CreateTags
<a href="#">CreateTransitGatewayConnectPeer</a>	Grants permission to create a Connect peer between a transit gateway and an appliance	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">ec2:Region</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayAttachmentId</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-connect-peer*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayConnectPeerId</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateTransitGatewayMeteringPolicy</a>	Grants permission to create a metering policy for a transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-metering-policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:transitGatewayMeteringPolicyId</a>	
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayAttachmentId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayMeteringPolicyEntry</a>	Grants permission to create an entry for a transit gateway metering policy	Write	<a href="#">transit-gateway-metering-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMeteringPolicyId</a>	
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayAttachmentId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayMulticastDomain</a>	Grants permission to create a multicast domain for a transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	ec2:CreateTags
			<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayPeeringAttachment</a>	Grants permission to request a transit gateway peering attachment between a requester and acceptor transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	ec2:CreateTags
			<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayPolicyTable</a>	Grants permission to create a transit gateway policy table	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	ec2:CreateTags
			<a href="#">transit-gateway-policy-table*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayPrefixListReference</a>	Grants permission to create a transit gateway prefix list reference	Write	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
<a href="#">CreateTransitGatewayRoute</a>	Grants permission to create a static route for a transit gateway route table	Write	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
<a href="#">CreateTransitGatewayRouteTable</a>	Grants permission to create a route table for a transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateTransitGatewayRouteTableAnnouncement</a>	Grants permission to create an announcement for a transit gateway route table	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
			<a href="#">transit-gateway-route-table-announcement*</a>	<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayVpcAttachment</a>	Grants permission to attach a VPC to a transit gateway	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	ec2:CreateTags
			<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVerifiedAccessEndpoint</a>	Grants permission to create a Verified Access endpoint	Write	<a href="#">verified-access-endpoint*</a>  <a href="#">verified-access-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AuthorizedUser</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:Permission</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateVerifiedAccessGroup</a>	Grants permission to create a Verified Access group	Write	<a href="#">verified-access-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateVerifiedAccessInstance</a>	Grants permission to create a Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	
<a href="#">CreateVerifiedAccessTrustProvider</a>	Grants permission to create a verified trust provider	Write	<a href="#">verified-access-trust-provider*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVolume</a>	Grants permission to create an EBS volume	Write	<a href="#">volume*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:KmsKeyId</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:VolumeId</a> <a href="#">ec2:VolumeInitializationRate</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeElops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpc</a>	Grants permission to create a VPC with a specified CIDR block	Write	<a href="#">vpc*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Ipv4IpamPoolId</a>  <a href="#">ec2:Ipv6IpamPoolId</a>  <a href="#">ec2:VpcId</a>	ec2:CreateTags
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv6pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateVpcBlockPublicAccessExclusion</a>	Grants permission to create an exclusion list for blocked public access on a VPC	Write	<a href="#">vpc-block-public-access-exclusion*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Ipv4IamPoolId</a> <a href="#">ec2:Ipv6IamPoolId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcEncryptionControl</a>	Grants permission to create a VPC Encryption Control	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	ec2:CreateTags
			<a href="#">vpc-encryption-control*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcEndpoint</a>	Grants permission to create a VPC endpoint for an AWS service	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpcID</a>	ec2:CreateTags ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs route53:AssociateVPCWithHostedZone

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpcePrivateDnsPreference</a> <a href="#">ec2:VpcePrivateDnsSpecifiedDomains</a> <a href="#">ec2:VpceServiceName</a> <a href="#">ec2:VpceServiceOwner</a> <a href="#">ec2:VpceServiceRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-table</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:RouteTableID</a>	
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>	
<a href="#">CreateVpcEndpointConnectionNotification</a>	Grants permission to create a connection notification for a VPC endpoint or VPC endpoint service	Write	<a href="#">vpc-endpoint</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-service</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceServiceRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcEndpointServiceConfiguration</a>	Grants permission to create a VPC endpoint service configuration to which service consumers (AWS accounts, IAM users, and IAM roles) can connect	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:VpcMultiRegion</a>  <a href="#">ec2:VpcServicePrivateDnsName</a>  <a href="#">ec2:VpcServiceRegion</a>  <a href="#">ec2:Region</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcPeeringConnection</a>	Grants permission to request a VPC peering connection between two VPCs	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	ec2:CreateTags
			<a href="#">vpc-peering-connection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:VpcPeeringConnectionID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">CreateVpnConcentrator</a>	Grants permission to create a VPN concentrator that aggregates multiple VPN connections to a transit gateway	Write	<a href="#">vpn-concentrator*</a>  <a href="#">transit-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>  <a href="#">ec2:Region</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpnConnection</a>	Grants permission to create a VPN connection between a virtual private gateway or transit gateway and a customer gateway	Write	<a href="#">customer-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-connection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AuthenticationType</a> <a href="#">ec2:DPDTimeoutSeconds</a> <a href="#">ec2:GatewayType</a> <a href="#">ec2:IKEVersions</a> <a href="#">ec2:InsideTunnelCidr</a> <a href="#">ec2:InsideTunnelIpv6Cidr</a> <a href="#">ec2:Phase1DHGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Phase1EncryptionAlgorithms</a> <a href="#">ec2:Phase1IntegrityAlgorithms</a> <a href="#">ec2:Phase1LifetimeSeconds</a> <a href="#">ec2:Phase2DHGroup</a> <a href="#">ec2:Phase2EncryptionAlgorithms</a> <a href="#">ec2:Phase2IntegrityAlgorithms</a> <a href="#">ec2:Phase2LifetimeSeconds</a> <a href="#">ec2:RekeyFuzzPercentage</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:RekeyMarginTimeSeconds</a>  <a href="#">ec2:ReplyWindowSizePackets</a>  <a href="#">ec2:RoutingType</a>	
			<a href="#">transit-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">vpn-concentrator</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateVpnConnectionRoute</a>	Grants permission to create a static route for a VPN connection between a virtual private gateway and a customer gateway	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">CreateVpnGateway</a>	Grants permission to create a virtual private gateway	Write	<a href="#">vpn-gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteCapacityManagerDataExport</a>	Grants permission to delete an existing Capacity Manager data export configuration	Write	<a href="#">capacity-manager-data-export*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DeleteCarrierGateway</a>	Grants permission to delete a carrier gateway	Write	<a href="#">carrier-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteClientVpnEndpoint</a>	Grants permission to delete a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamlProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteClientVpnRoute</a>	Grants permission to delete a route from a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCoipCidr</a>	Grants permission to delete a range of customer-owned IP (CoIP) addresses	Write	<a href="#">coip-pool</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	
<a href="#">DeleteCoipPool</a>	Grants permission to delete a pool of customer-owned IP (CoIP) addresses	Write	<a href="#">coip-pool</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCoipPoolPermission</a> [permission only]	Grants permission to deny a service from accessing a customer-owned IP (CoIP) pool	Permissions management	<a href="#">coip-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteCustomerGateway</a>	Grants permission to delete a customer gateway	Write	<a href="#">customer-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDhcpOptions</a>	Grants permission to delete a set of DHCP options	Write	<a href="#">dhcp-options*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:DhcpOptionsID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEgressOnlyInternetGateway</a>	Grants permission to delete an egress-only internet gateway	Write	<a href="#">egress-only-internet-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFleets</a>	Grants permission to delete one or more EC2 Fleets	Write	<a href="#">fleet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteFlowLogs</a>	Grants permission to delete one or more flow logs	Write	<a href="#">vpc-flow-log*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFpgaImage</a>	Grants permission to delete an Amazon FPGA Image (AFI)	Write	<a href="#">fpga-image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	
<a href="#">DeleteImageUsageReport</a>	Grants permission to delete an AMI usage report	Write	<a href="#">image-usage-report*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInstanceConnectEndpoint</a>	Grants permission to delete an EC2 Instance Connect Endpoint	Write	<a href="#">instance-connect-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>	
<a href="#">DeleteInstanceEventWindow</a>	Grants permission to delete the specified event window	Write	<a href="#">instance-event-window*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInternetGateway</a>	Grants permission to delete an internet gateway	Write	<a href="#">internet-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:InternetGatewayID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteIpam</a>	Grants permission to delete an Amazon VPC IP Address Manager (IPAM) and remove all monitored data associated with the IPAM including the historical data for CIDRs	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteExternalResourceVerificationToken</a>	Grants permission to delete a verification token, which proves ownership of an external resource	Write	<a href="#">ipam-external-resource-verification-token*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteIPAMPolicy</a>	Grants permission to delete an Amazon VPC IP Address Manager (IPAM) policy	Write	<a href="#">ipam-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteIpamPool</a>	Grants permission to delete an Amazon VPC IP Address Manager (IPAM) pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteIpamPrefixListResolver</a>	Grants permission to delete an IPAM prefix list resolver	Write	<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteIpamPrefixListResolverTarget</a>	Grants permission to delete an IPAM prefix list resolver target	Write	<a href="#">ipam-prefix-list-resolver-target*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteIpamResourceDiscovery</a>	Grants permission to delete an IPAM resource discovery	Write	<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteIpamScope</a>	Grants permission to delete the scope for an Amazon VPC IP Address Manager (IPAM)	Write	<a href="#">ipam-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteKeyPair</a>	Grants permission to delete a key pair by removing the public key from Amazon EC2	Write	<a href="#">key-pair</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:KeyPairName</a>  <a href="#">ec2:KeyPairType</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLaunchTemplate</a>	Grants permission to delete a launch template and its associated versions	Write	<a href="#">launch-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLaunchTemplateVersions</a>	Grants permission to delete one or more versions of a launch template	Write	<a href="#">launch-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLocalGatewayRoute</a>	Grants permission to delete a route from a local gateway route table	Write	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">prefix-list</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DeleteLocalGatewayRouteTable</a>	Grants permission to delete a local gateway route table	Write	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteLocalGatewayRouteTablePermission</a> [permission only]	Grants permission to deny a service from accessing a local gateway route table	Permissions management	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DeleteLocalGatewayRouteTableVirtualInterfaceGroupAssociation</a>	Grants permission to delete a local gateway route table virtual interface group association	Write	<a href="#">local-gateway-route-table-virtual-interface-group-association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLocalGatewayRouteTableVpcAssociation</a>	Grants permission to delete an association between a VPC and local gateway route table	Write	<a href="#">local-gateway-route-table-vpc-association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLocalGatewayVirtualInterface</a>	Grants permission to delete a local gateway virtual interface	Write	<a href="#">local-gateway-virtual-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLocalGatewayVirtualInterfaceGroup</a>	Grants permission to delete a local gateway virtual interface group	Write	<a href="#">local-gateway-virtual-interface-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteManagedPrefixList</a>	Grants permission to delete a managed prefix list	Write	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:IpamPrefixListResolverTargetId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNatGateway</a>	Grants permission to delete a NAT gateway	Write	<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteNetworkAcl</a>	Grants permission to delete a network ACL	Write	<a href="#">network-acl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:NetworkAclID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNetworkAclEntry</a>	Grants permission to delete an inbound or outbound entry (rule) from a network ACL	Write	<a href="#">network-acl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:NetworkAclID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Vpc</a>	
<a href="#">DeleteNetworkInsightsAccessScope</a>	Grants permission to delete a Network Access Scope	Write	<a href="#">network-insights-access-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNetworkInsightsAccessScopeAnalysis</a>	Grants permission to delete a Network Access Scope analysis	Write	<a href="#">network-insights-access-scope-analysis*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteNetworkInsightsAnalysis</a>	Grants permission to delete a network insights analysis	Write	<a href="#">network-insights-analysis*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNetworkInsightsPath</a>	Grants permission to delete a network insights path	Write	<a href="#">network-insights-path*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNetworkInterface</a>	Grants permission to delete a detached network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/TagKey</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/TagKey</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNetworkInterfacePermission</a>	Grants permission to delete a permission that is associated with a network interface	Permissions management	<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOdbNetworkPeering</a> [permission only]	Grants permission to allow Oracle Database@AWS to delete a peering connection between an ODB network and a VPC	Permissions management	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePlacementGroup</a>	Grants permission to delete a placement group	Write	<a href="#">placement-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeletePublicIpv4Pool</a>	Grants permission to delete a public IPv4 address pool for public IPv4 CIDRs that you own and brought to Amazon to manage with Amazon VPC IP Address Manager (IPAM)	Write	<a href="#">ipv4pool-ec2*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteQueuedReservedInstances</a>	Grants permission to delete the queued purchases for the specified Reserved Instances	Write	<a href="#">reserved-instances</a> * _	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:InstanceType</a>  <a href="#">ec2:ReservedInstancesOfferingType</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:Region</a>	
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to remove an IAM policy that enables cross-account sharing from a resource	Permissions management	<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">verified-access-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRoute</a>	Grants permission to delete a route from a route table	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	
<a href="#">DeleteRouteServer</a>	Grants permission to delete a route server	Write	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	sns:DeleteTopic

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRouteServerEndpoint</a>	Grants permission to delete a route server endpoint	Write	<a href="#">route-server-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:DeleteNetworkInterface  ec2:DeleteSecurityGroup  ec2:RevokeSecurityGroupIngress
				<a href="#">ec2:Region</a>	
<a href="#">DeleteRouteServerPeer</a>	Grants permission to delete a route server peer	Write	<a href="#">route-server-peer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:RevokeSecurityGroupIngress
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRouteTable</a>	Grants permission to delete a route table	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	
<a href="#">DeleteSecondaryNetwork</a>	Grants permission to delete a secondary network	Write	<a href="#">secondary-network*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSecondarySubnet</a>	Grants permission to delete a secondary subnet	Write	<a href="#">secondary-subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSecurityGroup</a>	Grants permission to delete a security group	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSnapshot</a>	Grants permission to delete a snapshot of an EBS volume	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSpotDatafeedSubscription</a>	Grants permission to delete a data feed for Spot Instances	Write		<a href="#">ec2:Region</a>	
<a href="#">DeleteSubnet</a>	Grants permission to delete a subnet	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
<a href="#">DeleteSubnetCidrReservation</a>	Grants permission to delete a subnet CIDR reservation	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTags</a>	Grants permission to delete one or more tags from Amazon EC2 resources	Tagging	<a href="#">capacity-block</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">capacity-manager-data-export</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">capacity-reservation</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">capacity-reservation-fleet</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">carrier-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">client-vpn-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">coip-pool</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">customer-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">declarative-policies-report</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dedicated-host</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dhcp-options</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">egress-only-internet-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">elastic-gpu</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">elastic-ip</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">export-image-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">export- instance-ta sk</a>	<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:Resou rceTag/ \${ TagKey}</a>  <a href="#">aws:TagKe ys</a>  <a href="#">ec2:Resou rceTag/ \${ TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fleet</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fpga-image</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">host-reservation</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image-usage-report</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">import-image-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">import-snapshot-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance-connect-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance-event-window</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">internet-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam- exte rnal-reso urce-veri fication- token</a>	<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:Resou rceTag/ \${ TagKey}</a>  <a href="#">aws:TagKe ys</a>  <a href="#">ec2:Resou rceTag/ \${ TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-policy</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-pool</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-prefix-list-resolver</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-prefix-list-resolver-target</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-resource-discovery</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-resource-discovers-association</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-scope</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv4pool-ec2</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv6pool-ec2</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">key-pair</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">launch-template</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-route-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-route-table-virtual-interface-group-association</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-route-table-attachment</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">local-gateway-virtual-interface-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">natgateway</a>	<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-acl</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-access-scope</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-access-scope-analysis</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-analysis</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-insights-path</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">prefix-list</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">replace-root-volume-task</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">reserved-instances</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-server-peer</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-interface</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-network</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-subnet</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group-rule</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">spot-fleet-request</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">spot-instances-request</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet-cidr-reservation</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-filter</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-filter-rule</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-session</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitoring</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-connect-peer</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-meeting-policy</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-multicast-domain</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-policy-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table-announcement</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-endpoint-tagget</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-in-stance</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-policy</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-trust-provider</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-block-public-access-exclusion</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-encryption-control</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-connection</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-service</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-int-service-permission</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-flow-log</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-peering-connection</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-concentrator</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-connection</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-gateway</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>  <a href="#">ec2:Region</a>	
<a href="#">DeleteTrafficMirrorFilter</a>	Grants permission to delete a traffic mirror filter	Write	<a href="#">traffic-mirror-filter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteTrafficMirrorFilterRule</a>	Grants permission to delete a traffic mirror filter rule	Write	<a href="#">traffic-mirror-filter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">traffic-mirror-filter-rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTrafficMirrorSession</a>	Grants permission to delete a traffic mirror session	Write	<a href="#">traffic-mirror-session*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTrafficMirrorTarget</a>	Grants permission to delete a traffic mirror target	Write	<a href="#">traffic-mirror-target*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTransitGateway</a>	Grants permission to delete a transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	
<a href="#">DeleteTransitGatewayAttachment</a>	Grants permission to delete a transit gateway connect attachment	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteTransitGatewayConnectPeer</a>	Grants permission to delete a transit gateway connect peer	Write	<a href="#">transit-gateway-connect-peer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayConnectPeerId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTransitGatewayMeteringPolicy</a>	Grants permission to delete a transit gateway metering policy	Write	<a href="#">transit-gateway-metering-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMeteringPolicyId</a>	
<a href="#">DeleteTransitGatewayMeteringPolicyEntry</a>	Grants permission to delete an entry from a transit gateway metering policy	Write	<a href="#">transit-gateway-metering-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMeteringPolicyId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteTransitGatewayMulticastDomain</a>	Grants permission to delete a transit gateway multicast domain	Write	<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTransitGatewayPeeringAttachment</a>	Grants permission to delete a peering attachment from a transit gateway	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
<a href="#">DeleteTransitGatewayPolicyTable</a>	Grants permission to delete a transit gateway policy table	Write	<a href="#">transit-gateway-policy-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteTransitGatewayPrefixListReference</a>	Grants permission to delete a transit gateway prefix list reference	Write	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTransitGatewayRoute</a>	Grants permission to delete a route from a transit gateway route table	Write	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
<a href="#">DeleteTransitGatewayRouteTable</a>	Grants permission to delete a transit gateway route table	Write	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteTransitGatewayRouteTableAnnouncement</a>	Grants permission to delete a transit gateway route table announcement	Write	<a href="#">transit-gateway-route-table-announcement*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTransitGatewayVpcAttachment</a>	Grants permission to delete a VPC attachment from a transit gateway	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
<a href="#">DeleteVerifiedAccessEndpoint</a>	Grants permission to delete a Verified Access endpoint	Write	<a href="#">verified-access-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVerifiedAccessGroup</a>	Grants permission to delete a Verified Access group	Write	<a href="#">verified-access-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteVerifiedAccessInstance</a>	Grants permission to delete a Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVerifiedAccessTrustProvider</a>	Grants permission to delete a verified trust provider	Write	<a href="#">verified-access-trust-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVolume</a>	Grants permission to delete an EBS volume	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeInitiali zationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughp ut</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVpc</a>	Grants permission to delete a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
<a href="#">DeleteVpcBlockPublicAccessExclusion</a>	Grants permission to delete an exclusion list for blocked public access on a VPC	Write	<a href="#">vpc-block-public-access-exclusion*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVpcEncryptionControl</a>	Grants permission to delete a VPC Encryption Control	Write	<a href="#">vpc-encryption-control*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteVpcEndpointConnectionNotifications</a>	Grants permission to delete one or more VPC endpoint connection notifications	Write	<a href="#">vpc-endpoint</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-endpoint-service</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVpcEndpointServiceConfigurations</a>	Grants permission to delete one or more VPC endpoint service configurations	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVpcEndpoints</a>	Grants permission to delete one or more VPC endpoints	Write	<a href="#">vpc-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceServiceName</a>  <a href="#">ec2:VpceServiceRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVpcPeeringConnection</a>	Grants permission to delete a VPC peering connection	Write	<a href="#">vpc-peering-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpcPeeringConnectionID</a>	
<a href="#">DeleteVpnConcentrator</a>	Grants permission to delete a VPN concentrator	Write	<a href="#">vpn-concentrator*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DeleteVpnConnection</a>	Grants permission to delete a VPN connection	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DeleteVpnConnectionRoute</a>	Grants permission to delete a static route for a VPN connection between a virtual private gateway and a customer gateway	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVpnGateway</a>	Grants permission to delete a virtual private gateway	Write	<a href="#">vpn-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DevisionByoipCidr</a>	Grants permission to release an IP address range that was provisioned through bring your own IP addresses (BYOIP), and to delete the corresponding address pool	Write		<a href="#">ec2:Region</a>	
<a href="#">DevisionIpamByoasn</a>	Grants permission to deprovision an Autonomous System Number (ASN) from an Amazon Web Services account	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeprovisionIpamPoolCidr</a>	Grants permission to deprovision a CIDR provisioned from an Amazon VPC IP Address Manager (IPAM) pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DeprovisionPublicIpv4PoolCidr</a>	Grants permission to deprovision a CIDR from a public IPv4 pool	Write	<a href="#">ipv4pool-ec2*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterImage</a>	Grants permission to deregister an Amazon Machine Image (AMI)	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
<a href="#">DeregisterInstanceEventNotificationAttributes</a>	Grants permission to remove tags from the set of tags to include in notifications about scheduled events for your instances	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterTransitGatewayMulticastGroupMembers</a>	Grants permission to deregister one or more network interface members from a group IP address in a transit gateway multicast domain	Write	<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-multicast-domain</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterTransitGatewayMulticastGroupSources</a>	Grants permission to deregister one or more network interface sources from a group IP address in a transit gateway multicast domain	Write	<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-multicast-domain</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
<a href="#">DescribeAccountAttributes</a>	Grants permission to describe the attributes of the AWS account	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeAddressTransfers</a>	Grants permission to describe an Elastic IP address transfer	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeAddresses</a>	Grants permission to describe one or more Elastic IP addresses	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeAddressesAttribute</a>	Grants permission to describe the attributes of the specified Elastic IP addresses	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAggregateFormat</a>	Grants permission to describe the longer ID format settings for all resource types	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeAvailabilityZones</a>	Grants permission to describe one or more of the Availability Zones that are available to you	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeAwsNetworkPerformanceMetricSubscriptions</a>	Grants permission to describe the current infrastructure performance metric subscriptions	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeBundleTasks</a>	Grants permission to describe one or more bundling tasks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeByoipCidrs</a>	Grants permission to describe the IP address ranges that were provisioned through bring your own IP addresses (BYOIP)	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityBlockExtensionHistory</a>	Grants permission to describe Capacity Block extensions history	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCapacityBlockExtensionsOfferings</a>	Grants permission to describe Capacity Block extensions offerings	List	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CapacityReservationFleet</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:DestinationCapacityReservationId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCapacityBlockOfferings</a>	Grants permission to describe Capacity Block offerings available for purchase	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityBlockStatus</a>	Grants permission to describe the availability of capacity for the specified Capacity blocks, or all of your Capacity Blocks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityBlocks</a>	Grants permission to describe details about Capacity Blocks in the AWS Region that you're currently using	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityManagerDataExports</a>	Grants permission to describe one or more Capacity Manager data export configurations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityReservationBillingRequests</a>	Grants permission to describe one or more requests to assign the billing of the unused capacity of a Capacity Reservation	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityReservationFleets</a>	Grants permission to describe one or more Capacity Reservation Fleets	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCapacityReservationsTopology</a>	Grants permission to describe the topology of one or more Capacity Reservations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCapacityReservations</a>	Grants permission to describe one or more Capacity Reservations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCarrierGateways</a>	Grants permission to describe one or more Carrier Gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeClassicLinkInstances</a>	Grants permission to describe one or more linked EC2-Classical instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeClientVpnAuthorizationRules</a>	Grants permission to describe the authorization rules for a Client VPN endpoint	List	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClientVpnConnections</a>	Grants permission to describe active client connections and connections that have been terminated within the last 60 minutes for a Client VPN endpoint	List	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamlProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClientVpnEndpoints</a>	Grants permission to describe one or more Client VPN endpoints	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClientVpnRoutes</a>	Grants permission to describe the routes for a Client VPN endpoint	List	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a> <a href="#">n</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClientVpnTargetNetworks</a>	Grants permission to describe the target networks that are associated with a Client VPN endpoint	List	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamlProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DescribeCoiPools</a>	Grants permission to describe the specified customer-owned address pools or all of your customer-owned address pools	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeConversionTasks</a>	Grants permission to describe one or more conversion tasks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeCustomerGateways</a>	Grants permission to describe one or more customer gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeDeclarativePoliciesReports</a>	Grants permission to describe one or more declarative policies reports	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeDhcpOptions</a>	Grants permission to describe one or more DHCP options sets	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeEgressOnlyInternetGateways</a>	Grants permission to describe one or more egress-only internet gateways	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeElasticGpus</a>	Grants permission to describe an Elastic Graphics accelerator or that is associated with an instance	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeExportImageTasks</a>	Grants permission to describe one or more export image tasks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeExportTasks</a>	Grants permission to describe one or more export instance tasks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeFastLaunchImages</a>	Grants permission to describe fast-launch enabled Windows AMIs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeFastSnapshotRestores</a>	Grants permission to describe the state of fast snapshot restores for snapshots	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeFleetHistory</a>	Grants permission to describe the events for an EC2 Fleet during a specified time	List	<a href="#">fleet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFleetInstances</a>	Grants permission to describe the running instances for an EC2 Fleet	List	<a href="#">fleet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DescribeFleets</a>	Grants permission to describe one or more EC2 Fleets	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeFlowLogs</a>	Grants permission to describe one or more flow logs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeFpgaImageAttribute</a>	Grants permission to describe the attributes of an Amazon FPGA Image (AFI)	List	<a href="#">fpga-image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFpgaImages</a>	Grants permission to describe one or more Amazon FPGA Images (AFIs)	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeHostReservationOfferings</a>	Grants permission to describe the Dedicated Host Reservations that are available to purchase	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeHostReservations</a>	Grants permission to describe the Dedicated Host Reservations that are associated with Dedicated Hosts in the AWS account	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeHosts</a>	Grants permission to describe one or more Dedicated Hosts	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeIamInstanceProfileAssociations</a>	Grants permission to describe the IAM instance profile associations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeIdFormat</a>	Grants permission to describe the ID format settings for resources	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeIdentityIdFormat</a>	Grants permission to describe the ID format settings for resources for an IAM user, IAM role, or root user	List		<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImageAttribute</a>	Grants permission to describe an attribute of an Amazon Machine Image (AMI)	List	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>	
<a href="#">DescribeImageReferences</a>	Grants permission to describe your AWS resources that are referencing specified images	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImageUsageReportEntries</a>	Grants permission to describe the entries of an AMI usage report	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeImageUsageReports</a>	Grants permission to describe the configuration and status of an AMI usage report	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeImages</a>	Grants permission to describe one or more images (AMIs, AKIs, and ARIs)	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeImportImageTasks</a>	Grants permission to describe import virtual machine or import snapshot tasks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeImportSnapshotTasks</a>	Grants permission to describe import snapshot tasks	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInstanceAttribute</a>	Grants permission to describe the attributes of an instance	List	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">DescribeInstanceConnectEndpoints</a>	Grants permission to describe EC2 Instance Connect Endpoints	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceCreditSpecifications</a>	Grants permission to describe the credit option for CPU usage of one or more burstable performance instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceEventNotificationAttributes</a>	Grants permission to describe the set of tags to include in notifications about scheduled events for your instances	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInstanceEventWindows</a>	Grants permission to describe the specified event windows or all event windows	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceImageMetadata</a>	Grants permission to describe the AMI that was used to launch an instance	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceSQLHaHistoryStates</a>	Grants permission to describe EC2 instance SQL HA history states	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceSQLHaStates</a>	Grants permission to describe EC2 instance SQL HA states	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceStatus</a>	Grants permission to describe the status of one or more instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceTopology</a>	Grants permission to describe a tree-based hierarchy that represents the physical host placement of EC2 instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceTypeOfferings</a>	Grants permission to describe the set of instance types that are offered in a location	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInstanceTypes</a>	Grants permission to describe the details of instance types that are offered in a location	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInstances</a>	Grants permission to describe one or more instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeInternetGateways</a>	Grants permission to describe one or more internet gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamByoasn</a>	Grants permission to describe a bring your own Autonomous System Number (BYOASN) that you've brought to IPAM	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamExternalResourceVerificationTokens</a>	Grants permission to describe verification tokens, which proves ownership of an external resource	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamPolicies</a>	Grants permission to describe Amazon VPC IP Address Manager (IPAM) policies	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamPools</a>	Grants permission to describe Amazon VPC IP Address Manager (IPAM) pools	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamPrefixListResolverTargets</a>	Grants permission to describe IPAM prefix list resolver targets	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePamPrefixListResolvers</a>	Grants permission to describe IPAM prefix list resolvers	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamResourceDiscoveries</a>	Grants permission to describe IPAM resource discoveries	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamResourceDiscoveryAssociations</a>	Grants permission to describe resource discovery associations with an Amazon VPC IPAM	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePamScopes</a>	Grants permission to describe Amazon VPC IP Address Manager (IPAM) scopes	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePams</a>	Grants permission to describe an Amazon VPC IP Address Manager (IPAM)	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeIpv6Pools</a>	Grants permission to describe one or more IPv6 address pools	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeKeyPairs</a>	Grants permission to describe one or more key pairs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLaunchTemplateVersions</a>	Grants permission to describe one or more launch template versions	List		<a href="#">ec2:Region</a>	ssm:GetParameters



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLaunchTemplates</a>	Grants permission to describe one or more launch templates	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLocalGatewayRouteTablePermissions</a> [permission only]	Grants permission to allow a service to describe local gateway route table permissions	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLocalGatewayRouteTableVirtualInterfaceGroupAssociations</a>	Grants permission to describe the associations between virtual interface groups and local gateway route tables	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLocalGatewayRouteTableVpcAssociations</a>	Grants permission to describe an association between VPCs and local gateway route tables	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLocalGatewayRouteTables</a>	Grants permission to describe one or more local gateway route tables	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLocalGatewayVirtualInterfaceGroups</a>	Grants permission to describe local gateway virtual interface groups	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLocalGatewayVirtualInterfaces</a>	Grants permission to describe local gateway virtual interfaces	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLocalGateways</a>	Grants permission to describe one or more local gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeLockedSnapshots</a>	Grants permission to describe the lock status for a snapshot	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeMacHosts</a>	Grants permission to describe your EC2 Mac Dedicated hosts	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeMacModificationTasks</a>	Grants permission to describe a System Integrity Protection (SIP) modification task or volume ownership delegation task for an Amazon EC2 Mac instance	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeManagedPrefixLists</a>	Grants permission to describe your managed prefix lists and any AWS-managed prefix lists	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMovingAddresses</a>	Grants permission to describe Elastic IP addresses that are being moved to the EC2-VPC platform	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNATGateways</a>	Grants permission to describe one or more NAT gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkAcls</a>	Grants permission to describe one or more network ACLs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkAccessScopeAnalyses</a>	Grants permission to describe one or more Network Access Scope analyses	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkAccessScopes</a>	Grants permission to describe the Network Access Scopes	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkInsightsAnalyses</a>	Grants permission to describe one or more network insights analyses	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkInsightsPaths</a>	Grants permission to describe one or more network insights paths	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeNetworkInterfaceAttribute</a>	Grants permission to describe a network interface attribute	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkInterfacePermissions</a>	Grants permission to describe the permissions that are associated with a network interface	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeNetworkInterfaces</a>	Grants permission to describe one or more network interfaces	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeOutpostLags</a>	Grants permission to describe Outpost LAGs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePlacementGroups</a>	Grants permission to describe one or more placement groups	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePrefixLists</a>	Grants permission to describe available AWS services in a prefix list format	List		<a href="#">ec2:Region</a>	
<a href="#">DescribePrincipalIdFormat</a>	Grants permission to describe the ID format settings for the root user and all IAM roles and IAM users that have explicitly specified a longer ID (17-character ID) preference	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePublicIpv4Pools</a>	Grants permission to describe one or more IPv4 address pools	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeRegions</a>	Grants permission to describe one or more AWS Regions that are currently available in your account	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeRootVolumeTasks</a>	Grants permission to describe a root volume replacement task	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeReservedInstances</a>	Grants permission to describe one or more purchased Reserved Instances in your account	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeReservedInstancesListings</a>	Grants permission to describe your account's Reserved Instance listings in the Reserved Instance Marketplace	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeReservedInstancesModifications</a>	Grants permission to describe the modifications made to one or more Reserved Instances	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeReservedInstancesOfferings</a>	Grants permission to describe the Reserved Instance offerings that are available for purchase	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeRouteServerEndpoints</a>	Grants permission to describe one or more route server endpoints	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeRouteServerPeers</a>	Grants permission to describe one or more route server peers	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeRouteServers</a>	Grants permission to describe one or more route servers	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeRouteTables</a>	Grants permission to describe one or more route tables	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeScheduledInstanceAvailability</a>	Grants permission to find available schedules for Scheduled Instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeScheduledInstances</a>	Grants permission to describe one or more Scheduled Instances in your account	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSecondaryInterfaces</a>	Grants permission to describe one or more secondary interfaces	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSecondaryNetworks</a>	Grants permission to describe one or more secondary networks	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSecondarySubnets</a>	Grants permission to describe one or more secondary subnets	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSecurityGroupReferences</a>	Grants permission to describe the VPCs on the other side of a VPC peering connection that are referencing specified VPC security groups	List	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	
<a href="#">DescribeSecurityGroupRules</a>	Grants permission to describe one or more of your security group rules	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSecurityGroupVpcAssociations</a>	Grants permission to describe security group VPC associations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSecurityGroups</a>	Grants permission to describe one or more security groups	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeServiceLinkVirtualInterfaces</a>	Grants permission to describe service link virtual interfaces	List		<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSnapshotAttribute</a>	Grants permission to describe an attribute of a snapshot	List	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DescribeSnapshotTierStatus</a>	Grants permission to describe the storage tier status for Amazon EBS snapshots	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSnapshots</a>	Grants permission to describe one or more EBS snapshots	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSpotDatafeedSubscription</a>	Grants permission to describe the data feed for Spot Instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSpotFleetInstances</a>	Grants permission to describe the running instances for a Spot Fleet	List	<a href="#">spot-fleet-request*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSpotFleetRequestHistory</a>	Grants permission to describe the events for a Spot Fleet request during a specified time	List	<a href="#">spot-fleet-request</a> *	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeSpotFleetRequests</a>	Grants permission to describe one or more Spot Fleet requests	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSpotInstanceRequests</a>	Grants permission to describe one or more Spot Instance requests	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeSpotPriceHistory</a>	Grants permission to describe the Spot Instance price history	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeStaleSecurityGroups</a>	Grants permission to describe the stale security group rules for security groups in a specified VPC	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeStoreImageTasks</a>	Grants permission to describe the progress of the AMI store tasks	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSubnets</a>	Grants permission to describe one or more subnets	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTags</a>	Grants permission to describe one or more tags for an Amazon EC2 resource	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTrafficMirrorFilterRules</a>	Grants permission to describe traffic mirror filters that determine the traffic that is mirrored	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTrafficMirrorFilters</a>	Grants permission to describe one or more traffic mirror filters	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTrafficMirrorSessions</a>	Grants permission to describe one or more traffic mirror sessions	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTrafficMirrorTargets</a>	Grants permission to describe one or more traffic mirror targets	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayAttachments</a>	Grants permission to describe one or more attachments between resources and transit gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayConnectPeers</a>	Grants permission to describe one or more transit gateway connect peers	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTransitGatewayConnectAttachments</a>	Grants permission to describe one or more transit gateway connect attachments	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayMeteringPolicies</a>	Grants permission to describe one or more transit gateway metering policies	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayMulticastDomains</a>	Grants permission to describe one or more transit gateway multicast domains	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayPeeringAttachments</a>	Grants permission to describe one or more transit gateway peering attachments	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayPolicyTables</a>	Grants permission to describe a transit gateway policy table	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayRouteTableAnnouncements</a>	Grants permission to describe a transit gateway route table announcement	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTransitGatewayRouteTables</a>	Grants permission to describe one or more transit gateway route tables	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGatewayVpcAttachments</a>	Grants permission to describe one or more VPC attachments on a transit gateway	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTransitGateways</a>	Grants permission to describe one or more transit gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeTrunkInterfaceAssociations</a>	Grants permission to describe one or more network interface trunk associations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVerifiedAccessEndpoints</a>	Grants permission to describe the specified Verified Access endpoints or all Verified Access endpoints	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVerifiedAccessGroups</a>	Grants permission to describe the specified Verified Access groups or all Verified Access groups	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVerifiedAccessInstanceLoggingConfigurations</a>	Grants permission to describe the current logging configuration for the Verified Access instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVerifiedAccessInstanceWebACLAssociations</a> [permission only]	Grants permission to describe the AWS Web Application Firewall (WAF) web access control list (ACL) associations for a Verified Access instance	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVerifiedAccessInstances</a>	Grants permission to describe the specified Verified Access instances or all Verified Access instances	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVerifiedAccessTrustProviders</a>	Grants permission to describe details of existing Verified Access trust providers	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVolumeAttribute</a>	Grants permission to describe an attribute of an EBS volume	List	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
<a href="#">DescribeVolumeStatus</a>	Grants permission to describe the status of one or more EBS volumes	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVolumes</a>	Grants permission to describe one or more EBS volumes	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVolumeModifications</a>	Grants permission to describe the current modification status of one or more EBS volumes	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVpcAttribute</a>	Grants permission to describe an attribute of a VPC	List	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
<a href="#">DescribeVpcBlockPublicAccessExclusions</a>	Grants permission to describe an exclusion list for blocked public access on a VPC	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcBlockPublicAccessOptions</a>	Grants permission to describe options for blocked public access on a VPC	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcClassicLink</a>	Grants permission to describe the ClassicLink status of one or more VPCs	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVpcClassicLinkDnsSupport</a>	Grants permission to describe the ClassicLink DNS support status of one or more VPCs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcEncryptionControls</a>	Grants permission to describe one or more VPC Encryption Controls	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcEndpointAssociations</a>	Grants permission to describe the VPC endpoint associations	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcEndpointConnectionNotifications</a>	Grants permission to describe the connection notifications for VPC endpoints and VPC endpoint services	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcEndpointConnections</a>	Grants permission to describe the VPC endpoint connections to your VPC endpoint services	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcEndpointServiceConfigurations</a>	Grants permission to describe VPC endpoint service configurations (your services)	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVpcEndpointServicePermissions</a>	Grants permission to describe the principals (service consumers) that are permitted to discover your VPC endpoint service	List	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	
<a href="#">DescribeVpcEndpointServices</a>	Grants permission to describe all supported AWS services that can be specified when creating a VPC endpoint	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcEndpoints</a>	Grants permission to describe one or more VPC endpoints	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpcPeeringConnections</a>	Grants permission to describe one or more VPC peering connections	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeVpcs</a>	Grants permission to describe one or more VPCs	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpnConcentrators</a>	Grants permission to describe one or more VPN concentrators	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpnConnections</a>	Grants permission to describe one or more VPN connections	List		<a href="#">ec2:Region</a>	
<a href="#">DescribeVpnGateways</a>	Grants permission to describe one or more virtual private gateways	List		<a href="#">ec2:Region</a>	
<a href="#">DetachApplianceFromNatGateway</a> [permission only]	Grants permission to detach an appliance from a public/private Natgateway	Permissions management	<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachClassicLinkVpc</a>	Grants permission to unlink (detach) a linked EC2-Classic instance from a VPC	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>  <a href="#">ec2:Region</a>	
<a href="#">DetachInternetGateway</a>	Grants permission to detach an internet gateway from a VPC	Write	<a href="#">internet-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:InternetGatewayID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachNetworkInterface</a>	Grants permission to detach a network interface from an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachResourcesFromPlacementGroup</a> [permission only]	Grants permission to detach resources from a placement group	Permissions management	<a href="#">placement-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DetachVerifiedAccessTrustProvider</a>	Grants permission to detach a trust provider from a Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-trust-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachVolume</a>	Grants permission to detach an EBS volume from an instance	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeInitiali zationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughp ut</a> <a href="#">ec2:VolumeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">DetachVpnGateway</a>	Grants permission to detach a virtual private gateway from a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DisableAddressTransfer</a>	Grants permission to disable Elastic IP address transfer	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableAllowedImagesSettings</a>	Grants permission to disable allowed images settings	Write		<a href="#">ec2:Region</a>	
<a href="#">DisableAwsNetworkPerformanceMetricSubscription</a>	Grants permission to disable infrastructure performance metric subscriptions	Write		<a href="#">ec2:Region</a>	
<a href="#">DisableCapacityManager</a>	Grants permission to disable EC2 Capacity Manager for your account	Write		<a href="#">ec2:Region</a>	
<a href="#">DisableEbsEncryptionByDefault</a>	Grants permission to disable EBS encryption by default for your account	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableFastLaunch</a>	Grants permission to disable faster launching for Windows AMIs	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableFastSnapshotRestores</a>	Grants permission to disable fast snapshot restores for one or more snapshots in specified Availability Zones	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:Encrypted</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:ParentVolume</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SnapshotID</a>  <a href="#">ec2:SnapshotTime</a>  <a href="#">ec2:VolumeSize</a>  <a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableImage</a>	Grants permission to disable an AMI	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
<a href="#">DisableImageBlockPublicAccess</a>	Grants permission to disable block public access for AMIs at the account level in the specified AWS Region	Permissions management		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableImageDeprecation</a>	Grants permission to cancel the deprecation of the specified AMI	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableImageDeregistrationProtection</a>	Grants permission to disable deregistration protection for an AMI. When deregistration protection is disabled, the AMI can be deregistered	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableInstanceSqlHaStandbyDetections</a>	Grants permission to disable EC2 instance SQL HA standby detections	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>  <a href="#">ec2:InstanceMarketType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DisableIpamOrganizationAdminAccount</a>	Grants permission to disable an AWS Organizations member account as an Amazon VPC IP Address Manager (IPAM) admin account	Write		<a href="#">ec2:Region</a>	organizations:DeRegisterDelegatedAdministrator
<a href="#">DisableIpamPolicy</a>	Grants permission to disable a policy in Amazon VPC IP Address Manager (IPAM) that controls public IPv4 address allocation	Write	<a href="#">ipam-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DisableRouteServerPropagation</a>	Grants permission to disable route server propagation	Write	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RouteTableID</a> <a href="#">ec2:Vpc</a>	
<a href="#">DisableSerialConsoleAccess</a>	Grants permission to disable access to the EC2 serial console of all instances for your account	Write		<a href="#">ec2:Region</a>	
<a href="#">DisableSnapshotBlockPublicAccess</a>	Grants permission to disable the block public access for snapshots setting for a Region	Permissions management		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableTransitGatewayRouteTablePropagation</a>	Grants permission to disable a resource attachment from propagating routes to the specified propagation route table	Write	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table-announcement</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>	
<a href="#">DisableVgwRoutePropagation</a>	Grants permission to disable a virtual private gateway from propagating routes to a specified route table of a VPC	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpn-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">DisableVpcClassicLink</a>	Grants permission to disable ClassicLink for a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableVpcClassicLinkDnsSupport</a>	Grants permission to disable ClassicLink DNS support for a VPC	Write	<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateAddress</a>	Grants permission to disassociate an Elastic IP address from an instance or network interface	Write	<a href="#">elastic-ip</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AllocationId</a>  <a href="#">ec2:Domain</a>  <a href="#">ec2:PublicIpAddress</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateCapacityReservationBillingOwner</a>	Grants permission to cancel a pending request to assign billing of the unused capacity of a Capacity Reservation to a consumer account	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CapacityReservationFleet</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:DestinationCapacityReservationId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateClientVpnTargetNetwork</a>	Grants permission to disassociate a target network from a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DisassociateEnclaveCertificateIamRole</a>	Grants permission to disassociate an ACM certificate from a IAM role	Write	<a href="#">certificate*</a> <a href="#">role*</a>	<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateIamInstanceProfile</a>	Grants permission to disassociate an IAM instance profile from a running or stopped instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">DisassociateInstanceEventWindow</a>	Grants permission to disassociate one or more targets from an event window	Write	<a href="#">instance-event-window*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociatePamByoasn</a>	Grants permission to disassociate an Autonomous System Number (ASN) from a BYOIP CIDR	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateIpamResourceDiscovery</a>	Grants permission to disassociate a resource discovery from an Amazon VPC IPAM	Write	<a href="#">ipam-resource-discovery-association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	
<a href="#">DisassociateNatGatewayAddress</a>	Grants permission to disassociate a secondary Elastic IP address from a public NAT gateway	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AllocationId</a>  <a href="#">ec2:Domain</a>  <a href="#">ec2:PublicIpAddress</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AuthorizedUser</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceID</a> <a href="#">ec2:Permission</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DisassociateRouteServer</a>	Grants permission to disassociate a route server from a VPC	Write	<a href="#">route-server*</a>  <a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:IpV4IamPoolId</a>  <a href="#">ec2:IpV6IamPoolId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DisassociateRouteTable</a>	Grants permission to disassociate a subnet from a route table	Write	<a href="#">internet-gateway</a>  <a href="#">ipv4pool-ec2</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">ec2:InternetGatewayID</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">ec2:ResourceTag/</a> <a href="#">\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv6pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">route-table</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetId</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">vpn-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">DisassociateSecurityGroupVpc</a>	Grants permission to disassociate a security group from a VPC	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Ipv4IamPoolId</a> <a href="#">ec2:Ipv6IamPoolId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateSubnetCidrBlock</a>	Grants permission to disassociate a CIDR block from a subnet	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	<a href="#">ec2:Region</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateTransitGatewayMulticastDomain</a>	Grants permission to disassociate one or more subnets from a transit gateway multicast domain	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateTransitGatewayPolicyTable</a>	Grants permission to disassociate a policy table from a transit gateway	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-policy-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateTransitGatewayRouteTable</a>	Grants permission to disassociate a resource attachment from a transit gateway route table	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateTrunkInterface</a>	Grants permission to disassociate a branch network interface to a trunk network interface	Write		<a href="#">ec2:Region</a>	
<a href="#">DisassociateVerifiedAccessInstanceWebAcl</a> [permission only]	Grants permission to disassociate an AWS Web Application Firewall (WAF) web access control list (ACL) from a Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateVpcCidrBlock</a>	Grants permission to disassociate a CIDR block from a VPC	Write	<a href="#">vpc</a>	<a href="#">ec2:Region</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">EnableAddressTransfer</a>	Grants permission to enable Elastic IP address transfer	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">EnableAllowedImagesSettings</a>	Grants permission to enable allowed images settings	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableAwsNetworkPerformanceMetricSubscription</a>	Grants permission to enable infrastructure performance subscriptions	Write		<a href="#">ec2:Region</a>	
<a href="#">EnableCapacityManager</a>	Grants permission to enable EC2 Capacity Manager for your account	Write		<a href="#">ec2:Region</a>	
<a href="#">EnableEbsEncryptionByDefault</a>	Grants permission to enable EBS encryption by default for your account	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableFastLaunch</a>	Grants permission to enable faster launching for Windows AMIs	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	ec2:CreateLaunchTemplate ec2:CreateSnapshot ec2:CreateTags ec2:DeleteSnapshot ec2:DescribeImages ec2:DescribeInstanceAttribute ec2:DescribeInstanceStatus ec2:DescribeInstanceTypeOfferings ec2:DescribeInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeLaunchTemplateVersions ec2:DescribeLaunchTemplates ec2:DescribeSnapshots ec2:DescribeSubnets ec2:RunInstances ec2:StopInstances ec2:TerminateInstances iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">launch-template</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableFastSnapshotRestores</a>	Grants permission to enable fast snapshot restores for one or more snapshots in specified Availability Zones	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:Encrypted</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:ParentVolume</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SnapshotID</a>  <a href="#">ec2:SnapshotTime</a>  <a href="#">ec2:VolumeSize</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableImage</a>	Grants permission to re-enable a disabled AMI	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
<a href="#">EnableImageBlockPublicAccess</a>	Grants permission to enable block public access for AMIs at the account level in the specified AWS Region	Permissions management		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableImageDeprecation</a>	Grants permission to enable deprecation of the specified AMI at the specified date and time	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableImageDeregistrationProtection</a>	Grants permission to enable deregistration protection for an AMI. When deregistration protection is enabled, the AMI can't be deregistered	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableInstanceSqlHaStandbyDetections</a>	Grants permission to enable EC2 instance SQL HA standby detections	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>  <a href="#">ec2:InstanceMarketType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">EnableIpamOrganizationAdminAccount</a>	Grants permission to enable an AWS Organizations member account as an Amazon VPC IP Address Manager (IPAM) admin account	Write		<a href="#">ec2:Region</a>	iam:CreateServiceLinkedRole  organizations:EnableAWSServiceAccess  organizations:RegisterDelegatedAdministrator
<a href="#">EnableIpamPolicy</a>	Grants permission to enable an Amazon VPC IP Address Manager (IPAM) policy	Write	<a href="#">ipam-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	<a href="#">ec2:Region</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableReachabilityAnalyzerOrganizationSharing</a>	Grants permission to enable organization sharing of reachability analyzer	Write		<a href="#">ec2:Region</a>	iam:CreateServiceLinkedRole  organizations:EnableAWSServiceAccess
<a href="#">EnableRouteServerPropagation</a>	Grants permission to enable route server propagation	Write	<a href="#">route-server*</a>       <a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>       <a href="#">aws:ResourceTag/\${TagKey}</a>       <a href="#">ec2:ResourceTag/\${TagKey}</a>       <a href="#">ec2:RouteTableID</a>       <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">EnableSerialConsoleAccess</a>	Grants permission to enable access to the EC2 serial console of all instances for your account	Write		<a href="#">ec2:Region</a>	
<a href="#">EnableSnapshotBlockPublicAccess</a>	Grants permission to enable or modify the block public access for snapshots setting for a Region	Permissions management		<a href="#">ec2:Region</a>	
<a href="#">EnableTransitGatewayRouteTablePropagation</a>	Grants permission to enable an attachment to propagate routes to a propagation route table	Write	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
			<a href="#">transit-gateway-route-table-announcement</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableVgwRoutePropagation</a>	Grants permission to enable a virtual private gateway to propagate routes to a VPC route table	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">vpn-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableVolumeIO</a>	Grants permission to enable I/O operations for a volume that had I/O operations disabled	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:Encrypted</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ParentSnapshot</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VolumeId</a>  <a href="#">ec2:VolumeIds</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
<a href="#">EnableVpcClassicLink</a>	Grants permission to enable a VPC for ClassicLink	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableVpcClassicLinkDnsSupport</a>	Grants permission to enable a VPC to support DNS hostname resolution for ClassicLink	Write	<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportClientVpnCertificateRevocationList</a>	Grants permission to download the client certificate revocation list for a Client VPN endpoint	Read	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportClientVpnClientConfiguration</a>	Grants permission to download the contents of the Client VPN endpoint configuration file for a Client VPN endpoint	Read	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamlProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ExportImage</a>	Grants permission to export an Amazon Machine Image (AMI) to a VM file	Write	<a href="#">export-image-task*</a>  <a href="#">image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ExportTransitGatewayRoutes</a>	Grants permission to export routes from a transit gateway route table to an Amazon S3 bucket	Write		<a href="#">ec2:Region</a>	
<a href="#">ExportVerifiedAccessInstanceClientConfiguration</a>	Grants permission to export a verified access instance client configuration	Read	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetActiveVpnTunnelStatus</a>	Grants permission to retrieve the current security parameters for an active VPN tunnel	Read	<a href="#">vpn-connection*</a>	<a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetAllowedImageSettings</a>	Grants permission to get the allowed settings for images	Read		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAssociatedEnclaveCertificateIamRoles</a>	Grants permission to get the list of roles associated with an ACM certificate	Read	<a href="#">certificate*</a>	<a href="#">ec2:Region</a>	
<a href="#">GetAssociatedIpv6PoolCidrs</a>	Grants permission to get information about the IPv6 CIDR block associations for a specified IPv6 address pool	Read	<a href="#">ipv6pool-ec2*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetAwsNetworkPerformanceData</a>	Grants permission to get network performance data	Read		<a href="#">ec2:Region</a>	
<a href="#">GetCapacityManagerAttributes</a>	Grants permission to retrieve the current configuration and status of EC2 Capacity Manager	Read		<a href="#">ec2:Region</a>	
<a href="#">GetCapacityManagerMetricData</a>	Grants permission to retrieve capacity usage metrics for your EC2 resources	Read		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCapacityManagerMetricDimensions</a>	Grants permission to retrieve the available dimension values for capacity metrics within a specified time range	Read		<a href="#">ec2:Region</a>	
<a href="#">GetCapacityReservationUsage</a>	Grants permission to get usage information about a Capacity Reservation	Read	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:CapacityReservationFleet</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetCoipPoolUsage</a>	Grants permission to describe the allocations from the specified customer-owned address pool	Read	<a href="#">coip-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConsoleOutput</a>	Grants permission to get the console output for an instance	Read	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConsoleScreenshot</a>	Grants permission to retrieve a JPG-format screenshot of a running instance	Read	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:NewInstanceProfile</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">GetDeclarativePoliciesReportSummary</a>	Grants permission to get the report summary of declarative policies	Read	<a href="#">declarative-policies-report*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDefaultCreditSpecification</a>	Grants permission to get the default credit option for CPU usage of a burstable performance instance family	Read		<a href="#">ec2:Region</a>	
<a href="#">GetEbsDefaultKmsKeyId</a>	Grants permission to get the ID of the default customer master key (CMK) for EBS encryption by default	Read		<a href="#">ec2:Region</a>	
<a href="#">GetEbsEncryptionByDefault</a>	Grants permission to describe whether EBS encryption by default is enabled for your account	Read		<a href="#">ec2:Region</a>	
<a href="#">GetEnableDlpamPolicy</a>	Grants permission to describe the currently enabled policy in Amazon VPC IP Address Manager (IPAM)	Read		<a href="#">ec2:Region</a>	
<a href="#">GetFlowLogsIntegrationTemplate</a>	Grants permission to generate a CloudFormation template to streamline the integration of VPC flow logs with Amazon Athena	Read	<a href="#">vpc-flow-log*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">GetGroupsForCapacityReservation</a>	Grants permission to list the resource groups to which a Capacity Reservation has been added	List	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:CapacityReservationFleet</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetHostReservationPurchaseReview</a>	Grants permission to preview a reservation purchase with configurations that match those of a Dedicated Host	Read		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetImageAncestry</a>	Grants permission to retrieve the ancestry chain of an AMI back to its root AMI	Read	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	
<a href="#">GetImageBlockPublicAccessState</a>	Grants permission to get the current state of block public access for AMIs at the account level in the specified AWS Region	Read		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstanceMetadataDefaults</a>	Grants permission to view the default instance metadata service (IMDS) settings set for your account in the specified Region	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstanceTpmEkPub</a>	Grants permission to get the public endorsement key associated with the Nitro Trusted Platform Module (NitroTPM) for the specified instance	Read	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">GetInstanceTypesFromInstanceRequirements</a>	Grants permission to view a list of instance types with specified instance attributes	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstanceUefiData</a>	Grants permission to retrieve the binary representation of the UEFI variable store	Read	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:NewInstanceProfile</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">GetIpamAddressHistory</a>	Grants permission to retrieve historical information about a CIDR within an Amazon VPC IP Address Manager (IPAM) scope	Read	<a href="#">ipam-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">GetIpamDiscoveredAccounts</a>	Grants permission to retrieve IPAM discovered accounts	Read	<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetIpamDiscoveredPublicAddresses</a>	Grants permission to retrieve the public IP addresses that have been discovered by IPAM	Read	<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIpamDiscoveredResourceCidrs</a>	Grants permission to retrieve the resource CIDRs that are monitored as part of a resource discovery	Read	<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetIpamPolicyAllocationRules</a>	Grants permission to describe the rules that define how Amazon VPC IP Address Manager (IPAM) pools allocate IP addresses to AWS resource types within an IPAM policy	List	<a href="#">ipam-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIpamPolicyOrganizationTargets</a>	Grants permission to retrieve the AWS Organizations targets associated with an Amazon VPC IP Address Manager (IPAM) policy	List	<a href="#">ipam-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetIpamPoolAllocations</a>	Grants permission to get a list of all the CIDR allocations in an Amazon VPC IP Address Manager (IPAM) pool	List	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIpamPoolCidrs</a>	Grants permission to get the CIDRs provisioned to an Amazon VPC IP Address Manager (IPAM) pool	Read	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">GetIpamPrefixListResolverRules</a>	Grants permission to get rules for an IPAM prefix list resolver	Read	<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIpamPrefixListResolverVersionEntries</a>	Grants permission to get CIDR entries for a specific version of an IPAM prefix list resolver	Read	<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetIpamPrefixListResolverVersions</a>	Grants permission to get versions of an IPAM prefix list resolver	Read	<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIpamResourceCidrs</a>	Grants permission to get information about the resources in an Amazon VPC IP Address Manager (IPAM) scope	Read	<a href="#">ipam-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLaunchTemplateData</a>	Grants permission to get the configuration data of the specified instance for use with a new launch template or launch template version	Read	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">GetManagedPrefixListAssociations</a>	Grants permission to get information about the resources that are associated with the specified managed prefix list	Read	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:IpamPrefixListResolverTargetId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetManagedPrefixListEntries</a>	Grants permission to get information about the entries for a specified managed prefix list	Read	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:IpamPrefixListResolverTargetId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetNetworkInsightsAccessScopeAnalysisFindings</a>	Grants permission to get the findings for one or more Network Access Scope analyses	Read	<a href="#">network-insights-access-scope-analysis*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetNetworkInsightsAccessScopeContent</a>	Grants permission to get the content for a specified Network Access Scope	Read	<a href="#">network-insights-access-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPasswordData</a>	Grants permission to retrieve the encrypted administrator password for a running Windows instance	Read	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetReservedInstancesExchangeQuote</a>	Grants permission to return a quote and exchange information for exchanging one or more Convertible Reserved Instances for a new Convertible Reserved Instance	Read	<a href="#">reserved-instances*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:InstanceType</a>  <a href="#">ec2:ReservedInstancesOfferingType</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to describe an IAM policy that enables cross-account sharing	Read	<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetRouteServerAssociations</a>	Grants permission to get associations for a route server	Read	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRouteServerPropagations</a>	Grants permission to get propagations for a route server	Read	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">route-table</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRouteServerRoutingDatabase</a>	Grants permission to get the routing database for a route server	Read	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetSecurityGroupsForVpc</a>	Grants permission to retrieve a list of security groups for a specified VPC	Read	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSerialConsoleAccessStatus</a>	Grants permission to retrieve the access status of your account to the EC2 serial console of all instances	Read		<a href="#">ec2:Region</a>	
<a href="#">GetSnapshotBlockPublicAccessState</a>	Grants permission to retrieve the current state of the block public access for snapshots setting for a Region	Read		<a href="#">ec2:Region</a>	
<a href="#">GetSpotPlacementScores</a>	Grants permission to calculate the Spot placement score for a Region or Availability Zone based on the specified target capacity and compute requirements	Read		<a href="#">ec2:Region</a>	
<a href="#">GetSubnetCidrReservations</a>	Grants permission to retrieve information about the subnet CIDR reservations	Read		<a href="#">ec2:Region</a>	
<a href="#">GetTransitGatewayAttachmentPropagations</a>	Grants permission to list the route tables to which a resource attachment propagates routes	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTransitGatewayMeteringPolicyEntries</a>	Grants permission to list the entries for a transit gateway metering policy	List	<a href="#">transit-gateway-metering-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMeteringPolicyId</a>	
<a href="#">GetTransitGatewayMulticastDomainAssociations</a>	Grants permission to get information about the associations for a transit gateway multicast domain	List	<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">GetTransitGatewayPolicyTableAssociations</a>	Grants permission to get information about associations for a transit gateway policy table	List	<a href="#">transit-gateway-policy-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTransitGatewayPolicyTableEntries</a>	Grants permission to get information about associations for a transit gateway policy table entry	List	<a href="#">transit-gateway-policy-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayPolicyTableId</a>	
<a href="#">GetTransitGatewayPrefixListReferences</a>	Grants permission to get information about prefix list references for a transit gateway route table	List		<a href="#">ec2:Region</a>	
<a href="#">GetTransitGatewayRouteTableAssociations</a>	Grants permission to get information about associations for a transit gateway route table	List		<a href="#">ec2:Region</a>	
<a href="#">GetTransitGatewayRouteTablePropagations</a>	Grants permission to get information about the route table propagations for a transit gateway route table	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVerifiedAccessEndpointPolicy</a>	Grants permission to show the Verified Access policy associated with the endpoint	List	<a href="#">verified-access-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetVerifiedAccessEndpointTargets</a>	Grants permission to get verified access endpoint targets	List	<a href="#">verified-access-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVerifiedAccessGroupPolicy</a>	Grants permission to show the contents of the Verified Access policy associated with the group	List	<a href="#">verified-access-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">GetVerifiedAccessInstanceWebAcl</a> [permission only]	Grants permission to show the AWS Web Application Firewall (WAF) web access control list (ACL) for a Verified Access instance	List	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVpcResourcesBlockingEncryptionEnforcement</a>	Grants permission to describe resources that would block VPC Encryption Control enforcement	List	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
<a href="#">GetVpnConnectionDeviceSampleConfiguration</a>	Grants permission to download an AWS-provided sample configuration file to be used with the customer gateway device	List	<a href="#">vpn-connection*</a>    <a href="#">vpn-connection-device-type*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">GetVpnConnectionDeviceTypes</a>	Grants permission to obtain a list of customer gateway devices for which sample configuration files can be provided	List		<a href="#">ec2:Region</a>	
<a href="#">GetVpnTunnelReplacementStatus</a>	Grants permission to view available tunnel endpoint maintenance events	List	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">ImportByoipCidrToIpam</a> [permission only]	Grants permission to transfer existing BYOIP IPv4 CIDRs to IPAM	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportClientVpnCertificateRevocationList</a>	Grants permission to upload a client certificate revocation list to a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportImage</a>	Grants permission to import single or multi-volume disk images or EBS snapshots into an Amazon Machine Image (AMI)	Write	<a href="#">image*</a>	<a href="#">ec2:Region</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:RootDeviceType</a>	ec2:CreateTags
			<a href="#">import-image-task*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportInstance</a>	Grants permission to create an import instance task using metadata from a disk image	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:Volumeops</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	
<a href="#">ImportKeyPair</a>	Grants permission to import a public key from an RSA key pair that was created with a third-party tool	Write	<a href="#">key-pair*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Region</a>	ec2:CreateTags



<b>Actions</b>	<b>Description</b>	<b>Access level</b>	<b>Resource types (*required)</b>	<b>Condition keys</b>	<b>Dependent actions</b>
<a href="#">ImportSnapshot</a>	Grants permission to import a disk into an EBS snapshot	Write	<a href="#">import-snapshot-task*</a>  <a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:ParentVolume</a>  <a href="#">ec2:SnapshotID</a>  <a href="#">ec2:SnapshotTime</a>  <a href="#">ec2:VolumeSize</a>  <a href="#">ec2:Region</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportVolume</a>	Grants permission to create an import volume task using metadata from a disk image	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeId</a> <a href="#">ec2:VolumeIds</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
<a href="#">InjectApiError</a> [permission only]	Grants permission to temporarily inject errors for target API requests	Write		<a href="#">ec2:FisActionId</a> <a href="#">ec2:FisTargetArns</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InjectVolumeIOLatency</a> [permission only]	Grants permission to temporarily inject latency to I/O operations for a target Amazon EBS volume	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:Encrypted</a>  <a href="#">ec2:ParentSnapshot</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VolumeId</a>  <a href="#">ec2:VolumeIops</a>  <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
<a href="#">ListImagesInRecycleBin</a>	Grants permission to list Amazon Machine Images (AMIs) that are currently in the Recycle Bin	List		<a href="#">ec2:Region</a>	
<a href="#">ListSnapshotsInRecycleBin</a>	Grants permission to list the Amazon EBS snapshots that are currently in the Recycle Bin	List		<a href="#">ec2:Region</a>	
<a href="#">ListVolumesInRecycleBin</a>	Grants permission to list EBS volumes in Recycle Bin	List		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LockSnapshots</a>	Grants permission to lock an Amazon EBS snapshot in either governance or compliance mode to protect it against accidental or malicious deletions	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotsCoolOffPeriod</a> <a href="#">ec2:SnapshotsID</a> <a href="#">ec2:SnapshotsLockDuration</a> <a href="#">ec2:SnapshotsTime</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ModifyAddressAttribute</a>	Grants permission to modify an attribute of the specified Elastic IP address	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyAvailabilityZoneGroup</a>	Grants permission to modify the opt-in status of the Local Zone and Wavelength Zone group for your account	Write		<a href="#">ec2:Region</a>	
<a href="#">ModifyCapacityReservation</a>	Grants permission to modify a Capacity Reservation's capacity and the conditions under which it is to be released	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:CapacityReservationFleet</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyCapacityReservationFleet</a>	Grants permission to modify a Capacity Reservation Fleet	Write	<a href="#">capacity-reservation-fleet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	ec2:ModifyCapacityReservation

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyClientVpnEndpoint</a>	Grants permission to modify a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:SamLP roviderAr n</a>  <a href="#">ec2:Serve rCertific ateArn</a>	
			<a href="#">security- group</a>	<a href="#">aws:Resou rceTag/ \${ TagKey}</a>  <a href="#">ec2:Resou rceTag/ \${ TagKey}</a>  <a href="#">ec2:Secur ityGroupI D</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
<a href="#">ModifyDefaultCreditSpecification</a>	Grants permission to change the account level default credit option for CPU usage of burstable performance instances	Write		<a href="#">ec2:Region</a>	
<a href="#">ModifyEbsDefaultKmsKeyId</a>	Grants permission to change the default customer master key (CMK) for EBS encryption by default for your account	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyFleet</a>	Grants permission to modify an EC2 Fleet	Write	<a href="#">fleet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">launch-template</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyFpgaImageAttribute</a>	Grants permission to modify an attribute of an Amazon FPGA Image (AFI)	Write	<a href="#">fpga-image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyHosts</a>	Grants permission to modify a Dedicated Host	Write	<a href="#">dedicated-host*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyIdFormat</a>	Grants permission to modify the ID format for a resource	Write		<a href="#">ec2:Region</a>	
<a href="#">ModifyIdentityIdFormat</a>	Grants permission to modify the ID format of a resource for a specific principal in your account	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyImageAttribute</a>	Grants permission to modify an attribute of an Amazon Machine Image (AMI)	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceAttribute</a>	Grants permission to modify an attribute of an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoned</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPu</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroup</a>  <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeId</a> <a href="#">ec2:VolumeInitiali</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">zationRate</a> <a href="#">ec2:Volume</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceCapacityReservationAttributes</a>	Grants permission to modify the Capacity Reservation settings for a stopped instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoned</a>  <a href="#">ec2:CpuOptionsAmdSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPu</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
			<a href="#">capacity-reservation</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceConnectEndpoint</a>	Grants permission to modify an existing EC2 Instance Connect Endpoint	Write	<a href="#">instance-connect-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceCpuOptions</a>	Grants permission to modify the CPU options on an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceCreditSpecification</a>	Grants permission to modify the credit option for CPU usage on an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoned</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceEventStartTime</a>	Grants permission to modify the start time for a scheduled EC2 instance event	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceEventWindow</a>	Grants permission to modify the specified event window	Write	<a href="#">instance-event-window*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceMaintenanceOperations</a>	Grants permission to modify the recovery behaviour for an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoned</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceMetadataDefaults</a>	Grants permission to modify the default instance metadata service (IMDS) settings for your account in the specified Region	Write		<a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceMetadataOptions</a>	Grants permission to modify the metadata options for an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoned</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceNetworkPerformanceOptions</a>	Grants permission to modify the network performance options for an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoned</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstancePlacement</a>	Grants permission to modify the placement attributes for an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a>  <a href="#">ec2:MetadataHttpTokens</a>  <a href="#">ec2:PlacementGroup</a>  <a href="#">ec2:ProductCode</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>  <a href="#">ec2:Tenancy</a>	
			<a href="#">dedicated-host</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyIpam</a>	Grants permission to modify the configurations of an Amazon VPC IP Address Manager (IPAM)	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyIpamPolicyAllocationRules</a>	Grants permission to modify the rules that define how Amazon VPC IP Address Manager (IPAM) pools allocate IP addresses to AWS resource types within an IPAM policy	Write	<a href="#">ipam-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">ModifyIpamPool</a>	Grants permission to modify the configurations of an Amazon VPC IP Address Manager (IPAM) pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ModifyIpamPrefixListResolver</a>	Grants permission to modify an IPAM prefix list resolver	Write	<a href="#">ipam-prefix-list-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">ipam-scope</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ModifyIpamPrefixListResolverTarget</a>	Grants permission to modify an IPAM prefix list resolver target	Write	<a href="#">ipam-prefix-list-resolver-target*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyIpamResourceCidr</a>	Grants permission to modify the configurations of an Amazon VPC IP Address Manager (IPAM) resource CIDR	Write	<a href="#">ipam-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyIpamResourceDiscovery</a>	Grants permission to modify a resource discovery	Write	<a href="#">ipam-resource-discovery*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyIpamScope</a>	Grants permission to modify the configurations of an Amazon VPC IP Address Manager (IPAM) scope	Write	<a href="#">ipam-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyLaunchTemplate</a>	Grants permission to modify a launch template	Write	<a href="#">launch-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyLocalGatewayRoute</a>	Grants permission to modify a local gateway route	Write	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">local-gateway-virtual-interface-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AuthorizedUser</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:Permission</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">prefix-list</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyManagedPrefixList</a>	Grants permission to modify a managed prefix list	Write	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:IpamPrefixListResolverTargetId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyNetworkInterfaceAttribute</a>	Grants permission to modify an attribute of a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyOdbNetworkPeering</a> [permission only]	Grants permission to allow Oracle Database@AWS to modify the settings of a peering connection between an ODB network and a VPC	Permissions management	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeNa me}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>  <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyPrivateDnsNameOptions</a>	Grants permission to modify the options for instance hostnames for the specified instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a>  <a href="#">ec2:MetadataHttpTokens</a>  <a href="#">ec2:NewInstanceProfile</a>  <a href="#">ec2:PlacementGroup</a>  <a href="#">ec2:ProductCode</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>  <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyPublicIpDnsNameOptions</a>	Grants permission to modify public hostname options for a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyReservedInstances</a>	Grants permission to modify attributes of one or more Reserved Instances	Write	<a href="#">reserved-instances</a> *	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:InstanceType</a>  <a href="#">ec2:ReservedInstancesOfferingType</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ModifyRouteServer</a>	Grants permission to modify a route server	Write	<a href="#">route-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">ModifySecurityGroupRules</a>	Grants permission to modify the rules of a security group	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">security-group-rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">prefix-list</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifySnapshotAttribute</a>	Grants permission to add or remove permission settings for a snapshot	Permissions management	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Add/group</a> <a href="#">ec2:Add/userId</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:Remove/group</a> <a href="#">ec2:Remove/userId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifySnapshotTier</a>	Grants permission to archive Amazon EBS snapshots	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeSize</a>	
				<a href="#">ec2:Region</a>	
<a href="#">ModifySpotFleetRequest</a>	Grants permission to modify a Spot Fleet request	Write	<a href="#">spot-fleet-request</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">launch-template</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifySubnetAttribute</a>	Grants permission to modify an attribute of a subnet	Write	<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTrafficMirroringFilterNetworkServices</a>	Grants permission to allow or restrict mirroring network services	Write	<a href="#">traffic-mirror-filter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTrafficMirrorFilterRule</a>	Grants permission to modify a traffic mirror rule	Write	<a href="#">traffic-mirror-filter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-monitor-filters-rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeNames}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTrafficMirrorSession</a>	Grants permission to modify a traffic mirror session	Write	<a href="#">traffic-mirror-session*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">traffic-mirror-filter</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">traffic-mirror-tag-get</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTransitGateway</a>	Grants permission to modify a transit gateway	Write	<a href="#">transit-gateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTransitGatewayMeteringPolicy</a>	Grants permission to modify a transit gateway metering policy	Write	<a href="#">transit-gateway-metering-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMeteringPolicyId</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTransitGatewayPrefixListReference</a>	Grants permission to modify a transit gateway prefix list reference	Write	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeNa</a> <a href="#">me}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTransitGatewayVpcAttachment</a>	Grants permission to modify a VPC attachment on a transit gateway	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVerifiedAccessEndpoint</a>	Grants permission to modify the configuration of a Verified Access endpoint	Write	<a href="#">verified-access-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetId</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">verified-access-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ModifyVerifiedAccessEndpointPolicy</a>	Grants permission to modify the specified Verified Access endpoint policy	Write	<a href="#">verified-access-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeNamespace}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVerifiedAccessGroup</a>	Grants permission to modify the specified Verified Access Group configuration	Write	<a href="#">verified-access-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">verified-access-instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVerifiedAccessGroupPolicy</a>	Grants permission to modify the specified Verified Access group policy	Write	<a href="#">verified-access-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVerifiedAccessInstance</a>	Grants permission to modify the configuration of the specified Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVerifiedAccessInstanceLoggingConfiguration</a>	Grants permission to modify the logging configuration for the specified Verified Access instance	Write	<a href="#">verified-access-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVerifiedAccessTrustProvider</a>	Grants permission to modify the configuration of the specified Verified Access trust provider	Write	<a href="#">verified-access-trust-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVolume</a>	Grants permission to modify the parameters of an EBS volume	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVolumeAttribute</a>	Grants permission to modify an attribute of a volume	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoned</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeIops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcAttribute</a>	Grants permission to modify an attribute of a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcBlockPublicAccessExclusion</a>	Grants permission to modify an exclusion list for blocked public access on a VPC	Write	<a href="#">vpc-block-public-access-exclusion*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyVpcBlockPublicAccessOptions</a>	Grants permission to modify options for blocked public access on a VPC	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcEncryptionControl</a>	Grants permission to modify an existing VPC Encryption Control	Write	<a href="#">vpc-encryption-control*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcEndpoint</a>	Grants permission to modify an attribute of a VPC endpoint	Write	<a href="#">vpc-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpceServiceRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">route-table</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>	
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcEndpointConnectionNotification</a>	Grants permission to modify a connection notification for a VPC endpoint or VPC endpoint service	Write	<a href="#">vpc-endpoint</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">vpc-endpoint-service</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcEndpointServiceConfiguration</a>	Grants permission to modify the attributes of a VPC endpoint service configuration	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceServicePrivateDnsName</a>  <a href="#">ec2:VpceSupportedRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ModifyVpcEndpointServicePayerResponsibility</a>	Grants permission to modify the payer responsibility for a VPC endpoint service	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcEndpointServicePermissions</a>	Grants permission to modify the permissions for a VPC endpoint service	Permissions management	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcPeeringConnectionOptions</a>	Grants permission to modify the VPC peering connection options on one side of a VPC peering connection	Write	<a href="#">vpc-peering-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeNa</a> <a href="#">me}</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpcPeeringConn</a> <a href="#">ectionID</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpcTenancy</a>	Grants permission to modify the instance tenancy attribute of a VPC	Write	<a href="#">vpc*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpnConnection</a>	Grants permission to modify the target gateway of a Site-to-Site VPN connection	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AuthenticationType</a> <a href="#">ec2:DPDTimeoutSeconds</a> <a href="#">ec2:GatewayType</a> <a href="#">ec2:IKEVersions</a> <a href="#">ec2:InsideTunnelCIDR</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InsideTunnelIpV6Cidr</a> <a href="#">ec2:Phase1DHGroup</a> <a href="#">ec2:Phase1EncryptionAlgorithms</a> <a href="#">ec2:Phase1IntegrityAlgorithms</a> <a href="#">ec2:Phase1LifetimeSeconds</a> <a href="#">ec2:Phase2DHGroup</a> <a href="#">ec2:Phase2EncryptionAlgorithms</a> <a href="#">ec2:Phase2IntegrityAlgorithms</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Phase2LifetimeSeconds</a> <a href="#">ec2:RekeyFuzzPercentage</a> <a href="#">ec2:RekeyMarginTimeSeconds</a> <a href="#">ec2:ReplyWindowSizePackets</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RoutingType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpnConnectionOptions</a>	Grants permission to modify the connection options for your Site-to-Site VPN connection	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpnTunnelCertificate</a>	Grants permission to modify the certificate for a Site-to-Site VPN connection	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyVpnTunnelOptions</a>	Grants permission to modify the options for a Site-to-Site VPN connection	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AuthenticationType</a> <a href="#">ec2:DPDTimeoutSeconds</a> <a href="#">ec2:GatewayType</a> <a href="#">ec2:IKEVersions</a> <a href="#">ec2:InsideTunnelCIDR</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InsideTunnelIpV6Cidr</a> <a href="#">ec2:Phase1DHGroup</a> <a href="#">ec2:Phase1EncryptionAlgorithms</a> <a href="#">ec2:Phase1IntegrityAlgorithms</a> <a href="#">ec2:Phase1LifetimeSeconds</a> <a href="#">ec2:Phase2DHGroup</a> <a href="#">ec2:Phase2EncryptionAlgorithms</a> <a href="#">ec2:Phase2IntegrityAlgorithms</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Phase2LifetimeSeconds</a> <a href="#">ec2:RekeyFuzzPercentage</a> <a href="#">ec2:RekeyMarginTimeSeconds</a> <a href="#">ec2:ReplaceWindowSizePackets</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RoutingType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MonitorInstances</a>	Grants permission to enable detailed monitoring for a running instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">MoveAddressToVpc</a>	Grants permission to move an Elastic IP address from the EC2-Classical platform to the EC2-VPC platform	Write		<a href="#">ec2:Region</a>	
<a href="#">MoveByoipCidrToIpam</a>	Grants permission to move a BYOIP IPv4 CIDR to Amazon VPC IP Address Manager (IPAM) from a public IPv4 pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	<a href="#">ec2:Region</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MoveCapacityReservations</a>	Grants permission to move available capacity from a source Capacity Reservation to a destination Capacity Reservation	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CapacityReservationFleet</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:DestinationCapacityReservationId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PauseVolume</a> [permission only]	Grants permission to temporarily pause I/O operations for a target Amazon EBS volume	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:Encrypted</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ParentSnapshot</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VolumeId</a>  <a href="#">ec2:Volumes</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:CpuOptionsAmdSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:Region</a>	
<a href="#">ProvisionByoipCidr</a>	Grants permission to provision an address range for use in AWS through bring your own IP addresses (BYOIP), and to create a corresponding address pool	Write		<a href="#">ec2:Region</a>	
<a href="#">ProvisionIpamByoasn</a>	Grants permission to provision an Autonomous System Number (ASN) for use in an Amazon Web Services account	Write	<a href="#">ipam*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Provision IpamPoolCidr</a>	Grants permission to provision a CIDR to an Amazon VPC IP Address Manager (IPAM) pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">Provision PublicIpv4PoolCidr</a>	Grants permission to provision a CIDR to a public IPv4 pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv4pool-ec2*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	
<a href="#">PurchaseCapacityBlock</a>	Grants permission to purchase a Capacity Block offering	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:CapacityReservationFleet</a>	ec2:CreateTags
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PurchaseCapacityBlockExtension</a>	Grants permission to purchase a Capacity Block extension	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:CapacityReservationFleet</a>	
				<a href="#">ec2:Region</a>	
<a href="#">PurchaseHostReservation</a>	Grants permission to purchase a reservation with configurations that match those of a Dedicated Host	Write	<a href="#">dedicated-host*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	<a href="#">ec2:CreateTags</a>
				<a href="#">ec2:Region</a>	
<a href="#">PurchaseReservedInstancesOffering</a>	Grants permission to purchase a Reserved Instance offering	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PurchaseScheduledInstances</a>	Grants permission to purchase one or more Scheduled Instances with a specified schedule	Write		<a href="#">ec2:Region</a>	
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to attach an IAM policy that enables cross-account sharing to a resource	Permissions management	<a href="#">ipam-pool</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:PlacementGroupName</a> <a href="#">ec2:PlacementGroupStrategy</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">verified-access-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RebootInstances</a>	Grants permission to request a reboot of one or more instances	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
<a href="#">RegisterImage</a>	Grants permission to register an Amazon Machine Image (AMI)	Write	<a href="#">image*</a>	<a href="#">ec2:Region</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:Owner</a>	ec2:CreateTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterInstanceEventNotificationAttributes</a>	Grants permission to add tags to the set of tags to include in notifications about scheduled events for your instances	Write		<a href="#">ec2:Region</a>	
<a href="#">RegisterTransitGatewayMulticastGroupMembers</a>	Grants permission to register one or more network interfaces as a member of a group IP address in a transit gateway multicast domain	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceID</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterTransitGatewayMulticastGroupSources</a>	Grants permission to register one or more network interfaces as a source of a group IP address in a transit gateway multicast domain	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectCapacityReservationBillingOwnership</a>	Grants permission to reject a request to assign billing of the available capacity of a shared Capacity Reservation to your account	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:CapacityReservationFleet</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:DestinationCapacityReservationId</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMatchCriteria</a> <a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:OutputArn</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#"><u>RejectTransitGatewayMulticastDomainAssociations</u></a>	Grants permission to reject requests to associate cross-account subnets with a transit gateway multicast domain	Write	<a href="#"><u>transit-gateway-attachment</u></a>  <a href="#"><u>transit-gateway-multicast-domain</u></a>	<a href="#"><u>aws:ResourceTag/\${TagKey}</u></a>  <a href="#"><u>ec2:ResourceTag/\${TagKey}</u></a>  <a href="#"><u>ec2:transitGatewayAttachmentId</u></a>  <a href="#"><u>aws:ResourceTag/\${TagKey}</u></a>  <a href="#"><u>ec2:ResourceTag/\${TagKey}</u></a>  <a href="#"><u>ec2:transitGatewayMulticastDomainId</u></a>  <a href="#"><u>ec2:Region</u></a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectTransitGatewayPeeringAttachment</a>	Grants permission to reject a transit gateway peering attachment request	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	
<a href="#">RejectTransitGatewayVpcAttachment</a>	Grants permission to reject a request to attach a VPC to a transit gateway	Write	<a href="#">transit-gateway-attachment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayAttachmentId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">RejectVpcEndpointConnections</a>	Grants permission to reject one or more VPC endpoint connection requests to a VPC endpoint service	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectVpcPeeringConnection</a>	Grants permission to reject a VPC peering connection request	Write	<a href="#">vpc-peering-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AccepterVpc</a>  <a href="#">ec2:RequesterVpc</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpcPeeringConnectionID</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReleaseAddress</a>	Grants permission to release an Elastic IP address	Write	<a href="#">elastic-ip</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Region</a>	
<a href="#">ReleaseHosts</a>	Grants permission to release one or more On-Demand Dedicated Hosts	Write	<a href="#">dedicated-host*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ReleaseAmazonPoolAllocation</a>	Grants permission to release an allocation within an Amazon VPC IP Address Manager (IPAM) pool	Write	<a href="#">ipam-pool*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReplaceInstanceProfileAssociation</a>	Grants permission to replace an IAM instance profile for an instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpToke</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:NewInstanceProfile</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	
<a href="#">ReplaceImageCriteriaInAllowedImagesSettings</a>	Grants permission to replace image criteria in allowed images settings	Write		<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReplaceNetworkACLAssociation</a>	Grants permission to change which network ACL a subnet is associated with	Write	<a href="#">network-acl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:NetworkACLID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReplaceNetworkACLEntry</a>	Grants permission to replace an entry (rule) in a network ACL	Write	<a href="#">network-acl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:NetworkACLID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Vpc</a>	
<a href="#">ReplaceRoute</a>	Grants permission to replace a route within a route table in a VPC	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RouteTableID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ReplaceRouteTableAssociation</a>	Grants permission to change the route table that is associated with a subnet	Write	<a href="#">route-table*</a>	<a href="#">aws:ResourceTag/TagKey</a> <a href="#">ec2:ResourceTag/TagKey</a> <a href="#">ec2:RouteTableID</a> <a href="#">ec2:Vpc</a>	
			<a href="#">internet-gateway</a>	<a href="#">aws:ResourceTag/TagKey</a> <a href="#">ec2:InternetGatewayID</a> <a href="#">ec2:ResourceTag/TagKey</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ipv4pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">ipv6pool-ec2</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SubnetID</a>  <a href="#">ec2:Vpc</a>	
			<a href="#">vpn-gateway</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ReplaceTransitGatewayRoute</a>	Grants permission to replace a route in a transit gateway route table	Write	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableId</a>	
			<a href="#">transit-gateway-attachment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayAttachmentId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">ReplaceVpnTunnel</a>	Grants permission to replace a VPN tunnel	Write	<a href="#">vpn-connection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
<a href="#">ReportInstanceStatus</a>	Grants permission to submit feedback about the status of an instance	Write	<a href="#">instance*</a>	<a href="#">ec2:Region</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceId</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RequestSpotFleet</a>	Grants permission to create a Spot Fleet request	Write	<a href="#">spot-fleet-request</a> * -  <a href="#">image</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>   <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">key-pair</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:KeyPairName</a> <a href="#">ec2:KeyPairType</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">launch-template</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/ \${TagKey}</a>	
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:ResourceTag/ \${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	
<a href="#">RequestSpotInstances</a>	Grants permission to create a Spot Instance request	Write	<a href="#">spot-instances-request*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateTags iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">image</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">key-pair</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:KeyPairName</a> <a href="#">ec2:KeyPairType</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AuthorizedUser</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:Permission</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">security-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:SourceOutpostArn</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetAddressAttribute</a>	Grants permission to reset the attribute of the specified IP address	Write	<a href="#">elastic-ip*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AllocationId</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:Domain</a>  <a href="#">ec2:PublicIpAddress</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetEbsDefaultKmsKeyId</a>	Grants permission to reset the default customer master key (CMK) for EBS encryption for your account to use the AWS-managed CMK for EBS	Write		<a href="#">ec2:Region</a>	
<a href="#">ResetFpgaImageAttribute</a>	Grants permission to reset an attribute of an Amazon FPGA Image (AFI) to its default value	Write	<a href="#">fpga-image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetImageAttribute</a>	Grants permission to reset an attribute of an Amazon Machine Image (AMI) to its default value	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:ImageID</a>  <a href="#">ec2:ImageType</a>  <a href="#">ec2:Owner</a>  <a href="#">ec2:Public</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetInstanceAttribute</a>	Grants permission to reset an attribute of an instance to its default value	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ProductCode</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetNetworkInterfaceAttribute</a>	Grants permission to reset an attribute of a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetSnapshotAttribute</a>	Grants permission to reset permission settings for a snapshot	Permissions management	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreAddressToClassic</a>	Grants permission to restore an Elastic IP address that was previously moved to the EC2-VPC platform back to the EC2-Classic platform	Write		<a href="#">ec2:Region</a>	
<a href="#">RestoreImageFromRecycleBin</a>	Grants permission to restore an Amazon Machine Image (AMI) from the Recycle Bin	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">RestoreManagedPrefixListVersion</a>	Grants permission to restore the entries from a previous version of a managed prefix list to a new version of the prefix list	Write	<a href="#">prefix-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreSnapshotFromRecycleBin</a>	Grants permission to restore an Amazon EBS snapshot from the Recycle Bin	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreSnapshotTier</a>	Grants permission to restore an archived Amazon EBS snapshot for use temporarily or permanently, or modify the restore period or restore type for a snapshot that was previously temporarily restored	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreVolumeFromRecycleBin</a>	Grants permission to restore an EBS volume from Recycle Bin	Write	<a href="#">volume*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:Encrypted</a>  <a href="#">ec2:ParentSnapshot</a>  <a href="#">ec2:ParentVolume</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VolumeId</a>  <a href="#">ec2:VolumeInitializationRate</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeTags</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokeClientVpnIngress</a>	Grants permission to remove an inbound authorization rule from a Client VPN endpoint	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamlProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">RevokeSecurityGroupEgress</a>	Grants permission to remove one or more outbound rules from a VPC security group	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokeSecurityGroupIngress</a>	Grants permission to remove one or more inbound rules from a security group	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>  <a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RunInstances</a>	Grants permission to launch one or more instances	Write	<a href="#">image*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	ec2:CreateTags iam:PassRole ssm:GetParameters

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPut</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tResponseHopLimit</a>  <a href="#">ec2:MetadataHttpTokens</a>  <a href="#">ec2:PlacementGroup</a>  <a href="#">ec2:ProductCode</a>  <a href="#">ec2:RootDeviceType</a>  <a href="#">ec2:Tenancy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-interface*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AssociatePublicIpAddress</a> <a href="#">ec2:AuthorizedService</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ManagedResourceOperator</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	<a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>	
			<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:LaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroup</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnet*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:LaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">capacity-reservation</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:LaunchTemplateResource</a>  <a href="#">ec2:LaunchTemplate</a>	
			<a href="#">elastic-gpu</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ElasticGpuType</a>  <a href="#">ec2:LaunchTemplateResource</a>  <a href="#">ec2:LaunchTemplate</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">elastic-inference</a>		
			<a href="#">group</a>		
			<a href="#">key-pair</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:LaunchTemplateResource</a> <a href="#">ec2:KeyPairName</a> <a href="#">ec2:KeyPairType</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">launch-template</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:IsLaunchTemplateResource</a>  <a href="#">ec2:LaunchTemplate</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
			<a href="#">license-configuration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">placement-group</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:IsLaunchTemplateResource</a>  <a href="#">ec2:LaunchTemplate</a>  <a href="#">ec2:PlacementGroupName</a>  <a href="#">ec2:PlacementGroupStrategy</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">secondary-subnet</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:IsLaunchTemplateName</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitializationRate</a> <a href="#">ec2:VolumeOps</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughput</a> <a href="#">ec2:VolumeType</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO: EC2-Classic-EBS</b>		<a href="#">image*</a> <a href="#">instance*</a> <a href="#">security-group*</a> <a href="#">volume*</a> <a href="#">key-pair</a> <a href="#">placement-group</a> <a href="#">snapshot</a>		
	<b>SCENARIO: EC2-Classic-InstanceStore</b>		<a href="#">image*</a> <a href="#">instance*</a> <a href="#">security-group*</a> <a href="#">key-pair</a> <a href="#">placement-group</a> <a href="#">snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<p><b>SCENARIO: EC2-VPC-EBS</b></p>		<p><a href="#"><u>image*</u></a></p> <p><a href="#"><u>instance*</u></a></p> <p><a href="#"><u>network-interface*</u></a></p> <p><a href="#"><u>security-group*</u></a></p> <p><a href="#"><u>volume*</u></a></p> <p><a href="#"><u>key-pair</u></a></p> <p><a href="#"><u>placement-group</u></a></p> <p><a href="#"><u>snapshot</u></a></p>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO:</b> EC2-VPC-EBS-Subnet		<a href="#">image*</a> <a href="#">instance*</a> <a href="#">network-interface*</a> <a href="#">security-group*</a> <a href="#">subnet*</a> <a href="#">volume*</a> <a href="#">key-pair</a> <a href="#">placement-group</a> <a href="#">snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO:</b> EC2-VPC-InstanceStore		<a href="#">image*</a> <a href="#">instance*</a> <a href="#">network-interface*</a> <a href="#">security-group*</a> <a href="#">key-pair</a> <a href="#">placement-group</a> <a href="#">snapshot</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	<b>SCENARIO:</b> EC2-VPC-InstanceStore-Subnet		<a href="#">image*</a> <a href="#">instance*</a> <a href="#">network-interface*</a> <a href="#">security-group*</a> <a href="#">subnet*</a> <a href="#">key-pair</a> <a href="#">placement-group</a> <a href="#">snapshot</a>		
<a href="#">RunScheduledInstances</a>	Grants permission to launch one or more Scheduled Instances	Write		<a href="#">ec2:Region</a>	
<a href="#">SearchLocalGatewayRoutes</a>	Grants permission to search for routes in a local gateway route table	List	<a href="#">local-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a>	
<a href="#">SearchTransitGatewayMulticastGroups</a>	Grants permission to search for groups, sources, and members in a transit gateway multicast domain	List	<a href="#">transit-gateway-multicast-domain*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMulticastDomainId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchTransitGatewayRoutes</a>	Grants permission to search for routes in a transit gateway route table	List	<a href="#">transit-gateway-route-table*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:transitGatewayRouteTableId</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendDiagnosticInterrupt</a>	Grants permission to send a diagnostic interrupt to an Amazon EC2 instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendSpotInstanceInterruptions</a> [permission only]	Grants permission to interrupt a Spot Instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CpuOptionsAmdSvSnp</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:InstanceAutoRecovery</a>  <a href="#">ec2:InstanceBandwidthWeighting</a>  <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:ResourceTag/</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	
<a href="#">StartDeclarativePoliciesReport</a>	Grants permission to start a declarative policies report	Read		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartInstances</a>	Grants permission to start a stopped instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Tenancy</a>	
			<a href="#">license-configuration</a>		
				<a href="#">ec2:Region</a>	
<a href="#">StartNetworkInsightsAccessScopeAnalysis</a>	Grants permission to start a Network Access Scope analysis	Write	<a href="#">network-insights-access-scope*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>	ec2:CreateTags
			<a href="#">network-insights-access-scope-analysis*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNetworkInsightsAnalysis</a>	Grants permission to start analyzing a specified path	Write	<a href="#">network-insights-analysis*</a>  <a href="#">network-insights-path*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Region</a>	ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartVpcEndpointServicePrivateDnsVerification</a>	Grants permission to start the private DNS verification process for a VPC endpoint service	Write	<a href="#">vpc-endpoint-service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:VpceMultiRegion</a>  <a href="#">ec2:VpceSupportedRegion</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopInstances</a>	Grants permission to stop an Amazon EBS-backed instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Terminate ClientVpn Connections</a>	Grants permission to terminate active Client VPN endpoint connections	Write	<a href="#">client-vpn-endpoint*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ClientRootCertificateChainArn</a>  <a href="#">ec2:CloudwatchLogGroupArn</a>  <a href="#">ec2:CloudwatchLogStreamArn</a>  <a href="#">ec2:DirectoryArn</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SamLPProviderArn</a>  <a href="#">ec2:ServerCertificateArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a> <a href="#">n</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Terminate Instances</a>	Grants permission to shut down one or more instances	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnassignIPv6Addresses</a>	Grants permission to unassign one or more IPv6 addresses from a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceID</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnassignPrivateIPAddresses</a>	Grants permission to unassign one or more secondary private IP addresses from a network interface	Write	<a href="#">network-interface*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:ManagedResourceOperator</a>  <a href="#">ec2:NetworkInterfaceId</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:Subnet</a>  <a href="#">ec2:Vpc</a>	
				<a href="#">ec2:Region</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnassignPrivateNatGatewayAddress</a>	Grants permission to unassign secondary private IPv4 addresses from a private NAT gateway	Write	<a href="#">natgateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UnlockSnapshot</a>	Grants permission to unlock a snapshot that is locked in governance mode or in compliance mode while still in the cooling-off period	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SnapshotCoolOffPeriod</a> <a href="#">ec2:SnapshotID</a> <a href="#">ec2:SnapshotLockDuration</a> <a href="#">ec2:SnapshotTime</a> <a href="#">ec2:VolumeSize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:Region</a> <a href="#">n</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Unmonitor Instances</a>	Grants permission to disable detailed monitoring for a running instance	Write	<a href="#">instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:MetadataHttpEndpoint</a> <a href="#">ec2:MetadataHttpPutResponseHopLimit</a> <a href="#">ec2:MetadataHttpTokens</a> <a href="#">ec2:PlacementGroup</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:ProductCode</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a> <a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	
<a href="#">UpdateCapacityManagerOrganizationsAccess</a>	Grants permission to update the Organizations access setting for EC2 Capacity Manager	Write		<a href="#">ec2:Region</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInterruptibleCapacityReservationAllocation</a>	Grants permission to update the number of instances allocated to an interruptible reservation, allowing you to add more capacity or reclaim capacity to your source Capacity Reservation	Write	<a href="#">capacity-reservation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:AvailabilityZone</a>  <a href="#">ec2:AvailabilityZoneId</a>  <a href="#">ec2:CreateDate</a>  <a href="#">ec2:EbsOptimized</a>  <a href="#">ec2:EndDate</a>  <a href="#">ec2:EndDateType</a>  <a href="#">ec2:InstanceCount</a>  <a href="#">ec2:InstanceMatchCriteria</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ec2:InstancePlatform</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:InterruptibleCapacityReservationId</a> <a href="#">ec2:InterruptionType</a> <a href="#">ec2:IsInterruptible</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SourceCapacityReservationId</a> <a href="#">ec2:TargetInstanceCount</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSecurityGroupRuleDescriptionsEgress</a>	Grants permission to update descriptions for one or more outbound rules in a VPC security group	Write		<a href="#">ec2:Tenancy</a>	
				<a href="#">ec2:Region</a>	
			<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:SecurityGroupID</a>	
	<a href="#">ec2:Vpc</a>				
	<a href="#">ec2:Region</a>				

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSecurityGroupRuleDescriptionsIngress</a>	Grants permission to update descriptions for one or more inbound rules in a security group	Write	<a href="#">security-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">ec2:SecurityGroupID</a>  <a href="#">ec2:Vpc</a>	
<a href="#">WithdrawByoipCidr</a>	Grants permission to stop advertising an address range that was provisioned for use in AWS through bring your own IP addresses (BYOIP)	Write		<a href="#">ec2:Region</a>	

## Resource types defined by Amazon EC2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">elastic-ip</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:elastic-ip/\${AllocationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AllocationId</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Domain</a> <a href="#">ec2:PublicIpAddress</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">capacity-block</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:capacity-block/\${CapacityBlockId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a>

Resource types	ARN	Condition keys
<a href="#">capacity-manager-data-export</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:capacity-manager-data-export/\${CapacityManagerDataExportId}	<a href="#">ec2:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:Region</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">capacity-reservation-fleet</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:capacity-reservation-fleet/\${CapacityReservationFleetId}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Attribute</a>  <a href="#">ec2:Attribute/\${AttributeName}</a>  <a href="#">ec2:Region</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">capacity-reservation</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:capacity-reservation/\${CapacityReservationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CapacityReservationFleet</a> <a href="#">ec2:CommitmentDuration</a> <a href="#">ec2:CreateDate</a> <a href="#">ec2:DestinationCapacityReservationId</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:EndDate</a> <a href="#">ec2:EndDateType</a> <a href="#">ec2:EphemeralStorage</a>

Resource types	ARN	Condition keys
		<a href="#">ec2:InstanceCount</a>
		<a href="#">ec2:InstanceMatchCriteria</a>
		<a href="#">ec2:InstancePlatform</a>
		<a href="#">ec2:InstanceType</a>
		<a href="#">ec2:InterruptibleCapacityReservationId</a>
		<a href="#">ec2:InterruptionType</a>
		<a href="#">ec2:IsInterruptible</a>
		<a href="#">ec2:IsLaunchTemplateResource</a>
		<a href="#">ec2:LaunchTemplate</a>
		<a href="#">ec2:OutpostArn</a>
		<a href="#">ec2:PlacementGroup</a>
		<a href="#">ec2:Region</a>
		<a href="#">ec2:ResourceTag/{TagKey}</a>
		<a href="#">ec2:SourceCapacityReservationId</a>
		<a href="#">ec2:TargetInstanceCount</a>
		<a href="#">ec2:Tenancy</a>

Resource types	ARN	Condition keys
<a href="#">carrier-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:carrier-gateway/\${CarrierGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:Vpc</a>
<a href="#">certificate</a>	arn:\${Partition}:acm:\${Region}:\${Account}:certificate/\${CertificateId}	

Resource types	ARN	Condition keys
<a href="#">client-vpn-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:client-vpn-endpoint/\${ClientVpnEndpointId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ClientRootCertificateChainArn</a> <a href="#">ec2:CloudwatchLogGroupArn</a> <a href="#">ec2:CloudwatchLogStreamArn</a> <a href="#">ec2:DirectoryArn</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SamlProviderArn</a> <a href="#">ec2:ServerCertificateArn</a>



Resource types	ARN	Condition keys
<a href="#">customer-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:customer-gateway/\${CustomerGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">declarative-policies-report</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:declarative-policies-report/\${DeclarativePoliciesReportId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">dedicated-host</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:dedicated-host/\${DedicatedHostId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AutoPlacement</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:HostRecovery</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Quantity</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">dhcp-options</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:dhcp-options/\${DhcpOptionsId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:DhcpOptionsID</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">egress-only-internet-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:egress-only-internet-gateway/\${EgressOnlyInternetGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">elastic-gpu</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:elastic-gpu/\${ElasticGpuId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:ElasticGpuType</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">elastic-inference</a>	arn:\${Partition}:elastic-inference:\${Region}:\${Account}:elastic-inference-accelerator/\${AcceleratorId}	
<a href="#">export-image-task</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:export-image-task/\${ExportImageTaskId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">export-in-stance-task</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:export-instance-task/\${ExportTaskId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">fleet</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:fleet/\${FleetId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">fpga-image</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:fpga-image/\${FpgaImageId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">host-reservation</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:host-reservation/\${HostReservationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">image</a>	arn:\${Partition}:ec2:\${Region}::image/\${ImageId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:ImageID</a> <a href="#">ec2:ImageType</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Owner</a> <a href="#">ec2:Public</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RootDeviceType</a>

Resource types	ARN	Condition keys
<a href="#">image-usage-report</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:image-usage-report/\${ImageUsageReportId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">import-image-task</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:import-image-task/\${ImportImageTaskId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">import-snapshot-task</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:import-snapshot-task/\${ImportSnapshotTaskId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">instance-connect-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:instance-connect-endpoint/\${InstanceConnectEndpointId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a>
<a href="#">instance-event-window</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:instance-event-window/\${InstanceEventWindowId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">instance</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:instance/\${InstanceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:CpuOptionsAmdSvSnp</a> <a href="#">ec2:EbsOptimized</a> <a href="#">ec2:InstanceAutoRecovery</a> <a href="#">ec2:InstanceBandwidthWeighting</a> <a href="#">ec2:InstanceID</a> <a href="#">ec2:InstanceMarketType</a> <a href="#">ec2:InstanceMetadataTags</a> <a href="#">ec2:InstanceProfile</a>

Resource types	ARN	Condition keys
		<a href="#">ec2:InstanceType</a>
		<a href="#">ec2:IsLaunchTemplateResource</a>
		<a href="#">ec2:LaunchTemplate</a>
		<a href="#">ec2:ManagedResourceOperator</a>
		<a href="#">ec2:MetadataHttpEndpoint</a>
		<a href="#">ec2:MetadataHttpPutResponseHopLimit</a>
		<a href="#">ec2:MetadataHttpTokens</a>
		<a href="#">ec2:NewInstanceProfile</a>
		<a href="#">ec2:PlacementGroup</a>
		<a href="#">ec2:ProductCode</a>
		<a href="#">ec2:Region</a>
		<a href="#">ec2:ResourceTag/\${TagKey}</a>
		<a href="#">ec2:RootDeviceType</a>
		<a href="#">ec2:Tenancy</a>

Resource types	ARN	Condition keys
<a href="#">internet-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:internet-gateway/\${InternetGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:InternetGatewayID</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipam-external-resource-verification-token</a>	arn:\${Partition}:ec2::\${Account}:ipam-external-resource-verification-token/\${IpamExternalResourceVerificationTokenId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ipam</a>	arn:\${Partition}:ec2::\${Account}:ipam/\${IpamId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipam-policy</a>	arn:\${Partition}:ec2::\${Account}:ipam-policy/\${IpamPolicyId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ipam-pool</a>	arn:\${Partition}:ec2::\${Account}:ipam-pool/\${IpamPoolId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipam-prefix-list-resolver</a>	arn:\${Partition}:ec2::\${Account}:ipam-prefix-list-resolver/\${IpamPrefixListResolverId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ipam-prefix-list-resolver-target</a>	arn:\${Partition}:ec2::\${Account}:ipam-prefix-list-resolver-target/\${IpamPrefixListResolverTargetId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipam-resource-discovery-association</a>	arn:\${Partition}:ec2::\${Account}:ipam-resource-discovery-association/\${IpamResourceDiscoveryAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ipam-resource-discovery</a>	arn:\${Partition}:ec2::\${Account}:ipam-resource-discovery/\${IpamResourceDiscoveryId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipam-scope</a>	arn:\${Partition}:ec2::\${Account}:ipam-scope/\${IpamScopeId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">coip-pool</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:coip-pool/\${Ipv4PoolCoipId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipv4pool-ec2</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:ipv4pool-ec2/\${Ipv4PoolEc2Id}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">ipv6pool-ec2</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:ipv6pool-ec2/\${Ipv6PoolEc2Id}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">key-pair</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:key-pair/\${KeyPairName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:KeyPairName</a> <a href="#">ec2:KeyPairType</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">launch-template</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:launch-template/\${LaunchTemplateId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">license-configuration</a>	arn:\${Partition}:license-manager:\${Region}:\${Account}:license-configuration:\${LicenseConfigurationId}	

Resource types	ARN	Condition keys
<a href="#">local-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:local-gateway/\${LocalGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">local-gateway-route-table-virtual-interface-group-association</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:local-gateway-route-table-virtual-interface-group-association/\${LocalGatewayRouteTableVirtualInterfaceGroupAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">local-gateway-route-table-vpc-association</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:local-gateway-route-table-vpc-association/\${LocalGatewayRouteTableVpcAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">local-gateway-route-table</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:local-gateway-route-table/\${LocalGatewayRouteTableId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">local-gateway-virtual-interface-group</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:local-gateway-virtual-interface-group/\${LocalGatewayVirtualInterfaceGroupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">local-gateway-virtual-interface</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:local-gateway-virtual-interface/\${LocalGatewayVirtualInterfaceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">mac-modification-task</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:mac-modification-task/\${MacModificationTaskId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">natgateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:natgateway/\${NatGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Vpc</a>
<a href="#">network-acl</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:network-acl/\${Nac1Id}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:NetworkAclID</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Vpc</a>

Resource types	ARN	Condition keys
<a href="#">network-insights-access-scope-analysis</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:network-insights-access-scope-analysis/\${NetworkInsightsAccessScopeAnalysisId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">network-insights-access-scope</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:network-insights-access-scope/\${NetworkInsightsAccessScopeId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">network-insights-analysis</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:network-insights-analysis/\${NetworkInsightsAnalysisId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">network-insights-path</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:network-insights-path/\${NetworkInsightsPathId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">network-interface</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:network-interface/\${NetworkInterfaceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AssociatePublicAddress</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AuthorizedService</a> <a href="#">ec2:AuthorizedUser</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:NetworkInterfaceId</a> <a href="#">ec2:Permission</a> <a href="#">ec2:Region</a>

Resource types	ARN	Condition keys
		<a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Subnet</a> <a href="#">ec2:Vpc</a>
<a href="#">outpost-lag</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:outpost-lag/\${OutpostLagId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">placement-group</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:placement-group/\${PlacementGroupName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:PlacementGroupName</a> <a href="#">ec2:PlacementGroupStrategy</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">prefix-list</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:prefix-list/\${PrefixListId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:IpamPrefixListResolverTargetId</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">replace-root-volume-task</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:replace-root-volume-task/\${ReplaceRootVolumeTaskId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">reserved-instances</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:reserved-instances/\${ReservationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:InstanceType</a> <a href="#">ec2:Region</a> <a href="#">ec2:ReservedInstancesOfferingType</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a>
<a href="#">group</a>	arn:\${Partition}:resource-groups:\${Region}:\${Account}:group/\${GroupName}	
<a href="#">role</a>	arn:\${Partition}:iam::\${Account}:role/\${RoleNameWithPath}	

Resource types	ARN	Condition keys
<a href="#">route-server-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:route-server-endpoint/\${RouteServerEndpointId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">route-server</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:route-server/\${RouteServerId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">route-server-peer</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:route-server-peer/\${RouteServerPeerId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">route-table</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:route-table/\${RouteTableId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:RouteTableID</a> <a href="#">ec2:Vpc</a>



Resource types	ARN	Condition keys
<a href="#">secondary-interface</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:secondary-interface/\${SecondaryInterfaceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">secondary-network</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:secondary-network/\${SecondaryNetworkId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">secondary-subnet</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:secondary-subnet/\${SecondarySubnetId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">security-group</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:security-group/\${SecurityGroupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SecurityGroupID</a> <a href="#">ec2:Vpc</a>

Resource types	ARN	Condition keys
<a href="#">security-group-rule</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:security-group-rule/\${SecurityGroupRuleId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">snapshot</a>	arn:\${Partition}:ec2:\${Region}::snapshot/\${SnapshotId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Add/group</a> <a href="#">ec2:Add/userId</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Location</a> <a href="#">ec2:OutpostArn</a> <a href="#">ec2:Owner</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:ProductCode</a> <a href="#">ec2:Region</a>

Resource types	ARN	Condition keys
		<p><a href="#">ec2:Remove/group</a></p> <p><a href="#">ec2:Remove/userId</a></p> <p><a href="#">ec2:ResourceTag/\${TagKey}</a></p> <p><a href="#">ec2:SnapshotCoolOffPeriod</a></p> <p><a href="#">ec2:SnapshotID</a></p> <p><a href="#">ec2:SnapshotLockDuration</a></p> <p><a href="#">ec2:SnapshotTime</a></p> <p><a href="#">ec2:SourceAvailabilityZone</a></p> <p><a href="#">ec2:SourceOutpostArn</a></p> <p><a href="#">ec2:VolumeSize</a></p>

Resource types	ARN	Condition keys
<a href="#">spot-fleet-request</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:spot-fleet-request/\${SpotFleetRequestId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">spot-instances-request</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:spot-instances-request/\${SpotInstanceRequestId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">subnet-cidr-reservation</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:subnet-cidr-reservation/\${SubnetCidrReservationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">subnet</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:subnet/\${SubnetId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Ipv4IpamPoolId</a> <a href="#">ec2:Ipv6IpamPoolId</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:SubnetID</a> <a href="#">ec2:Vpc</a>



Resource types	ARN	Condition keys
<a href="#">traffic-mirror-filter</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:traffic-mirror-filter/\${TrafficMirrorFilterId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">traffic-mirror-filter-rule</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:traffic-mirror-filter-rule/\${TrafficMirrorFilterRuleId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">traffic-mirror-session</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:traffic-mirror-session/\${TrafficMirrorSessionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">traffic-mirror-target</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:traffic-mirror-target/\${TrafficMirrorTargetId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">transit-gateway-attachment</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-attachment/\${TransitGatewayAttachmentId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayAttachmentId</a>
<a href="#">transit-gateway-connect-peer</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-connect-peer/\${TransitGatewayConnectPeerId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayConnectPeerId</a>

Resource types	ARN	Condition keys
<a href="#">transit-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway/\${TransitGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayId</a>
<a href="#">transit-gateway-metering-policy</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-metering-policy/\${TransitGatewayMeteringPolicyId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMeteringPolicyId</a>

Resource types	ARN	Condition keys
<a href="#">transit-gateway-multicast-domain</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-multicast-domain/\${TransitGatewayMulticastDomainId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayMulticastDomainId</a>
<a href="#">transit-gateway-policy-table</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-policy-table/\${TransitGatewayPolicyTableId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayPolicyTableId</a>

Resource types	ARN	Condition keys
<a href="#">transit-gateway-route-table-announcement</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-route-table-announcement/\${TransitGatewayRouteTableAnnouncementId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>
<a href="#">transit-gateway-route-table</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:transit-gateway-route-table/\${TransitGatewayRouteTableId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:transitGatewayRouteTableId</a>

Resource types	ARN	Condition keys
<a href="#">verified-access-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-endpoint/\${VerifiedAccessEndpointId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">verified-access-endpoint-target</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-endpoint-target/\${VerifiedAccessEndpointTargetId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">verified-access-group</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-group/\${VerifiedAccessGroupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">verified-access-instance</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-instance/\${VerifiedAccessInstanceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">verified-access-policy</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-policy/\${VerifiedAccessPolicyId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">verified-access-trust-provider</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-trust-provider/\${VerifiedAccessTrustProviderId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">volume</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:volume/\${VolumeId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AvailabilityZone</a> <a href="#">ec2:AvailabilityZoneId</a> <a href="#">ec2:Encrypted</a> <a href="#">ec2:IsLaunchTemplateResource</a> <a href="#">ec2:KmsKeyId</a> <a href="#">ec2:LaunchTemplate</a> <a href="#">ec2:ManagedResourceOperator</a> <a href="#">ec2:ParentSnapshot</a> <a href="#">ec2:ParentVolume</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">ec2:VolumeID</a> <a href="#">ec2:VolumeInitiali zationRate</a> <a href="#">ec2:Volumeops</a> <a href="#">ec2:VolumeSize</a> <a href="#">ec2:VolumeThroughp ut</a> <a href="#">ec2:VolumeType</a>
<a href="#">vpc-block -public-a ccess-exc lusion</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-block-public-access-exclusion/\${VpcBlockPublicAccessExclusionId}	<a href="#">aws:RequestTag/\${T agKey}</a> <a href="#">aws:ResourceTag/\${ TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${At tributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${ TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">vpc-encryption-control</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-encryption-control/\${VpcEncryptionControlId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">vpc-endpoint-connection</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-endpoint-connection/\${VpcEndpointConnectionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">vpc-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-endpoint/\${VpcEndpointId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpcePrivateDnsPreference</a> <a href="#">ec2:VpcePrivateDnsSpecifiedDomains</a> <a href="#">ec2:VpceServiceName</a> <a href="#">ec2:VpceServiceOwner</a> <a href="#">ec2:VpceServiceRegion</a>

Resource types	ARN	Condition keys
<a href="#">vpc-endpoint-service</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-endpoint-service/\${VpcEndpointServiceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpceMultiRegion</a> <a href="#">ec2:VpceServicePrivateDnsName</a> <a href="#">ec2:VpceServiceRegion</a> <a href="#">ec2:VpceSupportedRegion</a>

Resource types	ARN	Condition keys
<a href="#">vpc-endpoint-service-permission</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-endpoint-service-permission/\${VpcEndpointServicePermissionId}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Region</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">vpc-flow-log</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-flow-log/\${VpcFlowLogId}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ec2:Region</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">vpc</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc/\${VpcId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Ipv4IpamPoolId</a> <a href="#">ec2:Ipv6IpamPoolId</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:Tenancy</a> <a href="#">ec2:VpcID</a>



Resource types	ARN	Condition keys
<a href="#">vpc-peering-connection</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-peering-connection/\${VpcPeeringConnectionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:AccepterVpc</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:Region</a> <a href="#">ec2:RequesterVpc</a> <a href="#">ec2:ResourceTag/\${TagKey}</a> <a href="#">ec2:VpcPeeringConnectionID</a>
<a href="#">vpn-concentrator</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpn-concentrator/\${VpnConcentratorId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">vpn-connection-device-type</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpn-connection-device-type/\${VpnConnectionDeviceTypeId}	<a href="#">ec2:Region</a>

Resource types	ARN	Condition keys
<a href="#">vpn-connection</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpn-connection/\${VpnConnectionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Attribute</a> <a href="#">ec2:Attribute/\${AttributeName}</a> <a href="#">ec2:AuthenticationType</a> <a href="#">ec2:DPDTimeoutSeconds</a> <a href="#">ec2:GatewayType</a> <a href="#">ec2:IKEVersions</a> <a href="#">ec2:InsideTunnelCidr</a> <a href="#">ec2:InsideTunnelIpv6Cidr</a> <a href="#">ec2:Phase1DHGroup</a> <a href="#">ec2:Phase1EncryptionAlgorithms</a> <a href="#">ec2:Phase1IntegrityAlgorithms</a> <a href="#">ec2:Phase1LifetimeSeconds</a>

Resource types	ARN	Condition keys
		<a href="#">ec2:Phase2DHGroup</a>
		<a href="#">ec2:Phase2EncryptionAlgorithms</a>
		<a href="#">ec2:Phase2IntegrityAlgorithms</a>
		<a href="#">ec2:Phase2LifetimeSeconds</a>
		<a href="#">ec2:Region</a>
		<a href="#">ec2:RekeyFuzzPercentage</a>
		<a href="#">ec2:RekeyMarginTimeSeconds</a>
		<a href="#">ec2:ReplayWindowSizePackets</a>
		<a href="#">ec2:ResourceTag/\${TagKey}</a>
		<a href="#">ec2:RoutingType</a>

Resource types	ARN	Condition keys
<a href="#">vpn-gateway</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpn-gateway/\${VpnGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ec2:Region</a> <a href="#">ec2:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EC2

Amazon EC2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">ec2:AccepterVpc</a>	Filters access by the ARN of an accepter VPC in a VPC peering connection	ARN

Condition keys	Description	Type
<a href="#">ec2:Add/group</a>	Filters access by the group being added to a snapshot	String
<a href="#">ec2:Add/userId</a>	Filters access by the account id being added to a snapshot	String
<a href="#">ec2:AllocationId</a>	Filters access by the allocation ID of the Elastic IP address	String
<a href="#">ec2:AssociatePublicIpAddress</a>	Filters access by whether the user wants to associate a public IP address with the instance	Bool
<a href="#">ec2:Attribute</a>	Filters access by an attribute of a resource	String
<a href="#">ec2:Attribute/\${AttributeName}</a>	Filters access by an attribute being set on a resource	String
<a href="#">ec2:AuthenticationType</a>	Filters access by the authentication type for the VPN tunnel endpoints	String
<a href="#">ec2:AuthorizedService</a>	Filters access by the AWS service that has permission to use a resource	String
<a href="#">ec2:AuthorizedUser</a>	Filters access by an IAM principal that has permission to use a resource	String
<a href="#">ec2:AutoPlacement</a>	Filters access by the Auto Placement properties of a Dedicated Host	String
<a href="#">ec2:AvailabilityZone</a>	Filters access by the name of an Availability Zone in an AWS Region	String
<a href="#">ec2:AvailabilityZoneId</a>	Filters access by the ID of an Availability Zone in an AWS Region	String

Condition keys	Description	Type
<a href="#">ec2:CapacityReservationFleet</a>	Filters access by the ARN of the Capacity Reservation Fleet	ARN
<a href="#">ec2:ClientRootCertificateChainArn</a>	Filters access by the ARN of the client root certificate chain	ARN
<a href="#">ec2:CloudWatchLogGroupArn</a>	Filters access by the ARN of the CloudWatch Logs log group	ARN
<a href="#">ec2:CloudWatchLogStreamArn</a>	Filters access by the ARN of the CloudWatch Logs log stream	ARN
<a href="#">ec2:CommitmentDuration</a>	Filters access by commitment duration of the Capacity Reservation	Numeric
<a href="#">ec2:CpuOptionsAmdSevSnp</a>	Filters access by the state of AMD SEV-SNP CPU Options. Currently, only US East (Ohio) and Europe (Ireland) are supported	String
<a href="#">ec2:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">ec2:CreateDate</a>	Filters access by the date and time at which the Capacity Reservation was created	Date
<a href="#">ec2:DPDTimeoutSeconds</a>	Filters access by the duration after which DPD timeout occurs on a VPN tunnel	Numeric
<a href="#">ec2:DestinationCapacityReservationId</a>	Filters access by the ID of the Capacity Reservation that you want to move capacity into	ARN

Condition keys	Description	Type
<a href="#">ec2:DhcpOptionsID</a>	Filters access by the ID of a dynamic host configuration protocol (DHCP) options set	String
<a href="#">ec2:DirectoryArn</a>	Filters access by the ARN of the directory	ARN
<a href="#">ec2:Domain</a>	Filters access by the domain of the Elastic IP address	String
<a href="#">ec2:EbsOptimized</a>	Filters access by whether the instance is enabled for EBS optimization	Bool
<a href="#">ec2:ElasticGpuType</a>	Filters access by the type of Elastic Graphics accelerator	String
<a href="#">ec2:Encrypted</a>	Filters access by whether the EBS volume is encrypted	Bool
<a href="#">ec2:EndDate</a>	Filters access by the date and time at which the Capacity Reservation ends	Date
<a href="#">ec2:EndDateType</a>	Filters access by the way in which the Capacity Reservation ends	String
<a href="#">ec2:EphemeralStorage</a>	Filters access by whether the instance is enabled for ephemeral storage	Bool
<a href="#">ec2:FisActionId</a>	Filters access by the ID of an AWS FIS action	String
<a href="#">ec2:FisTargetArns</a>	Filters access by the ARN of an AWS FIS target	ArrayOfARN
<a href="#">ec2:GatewayType</a>	Filters access by the gateway type for a VPN endpoint on the AWS side of a VPN connection	String
<a href="#">ec2:HostRecovery</a>	Filters access by whether host recovery is enabled for a Dedicated Host	String
<a href="#">ec2:IKEVersions</a>	Filters access by the internet key exchange (IKE) versions that are permitted for a VPN tunnel	ArrayOfString



Condition keys	Description	Type
<a href="#">ec2:ImageID</a>	Filters access by the ID of an image	String
<a href="#">ec2:ImageType</a>	Filters access by the type of image (machine, aki, or ari)	String
<a href="#">ec2:Insid eTunnelCidr</a>	Filters access by the range of inside IP addresses for a VPN tunnel	String
<a href="#">ec2:Insid eTunnelIpv6Cidr</a>	Filters access by a range of inside IPv6 addresses for a VPN tunnel	String
<a href="#">ec2:Insta nceAutoRe covery</a>	Filters access by whether the instance type supports auto recovery	String
<a href="#">ec2:Insta nceBandwi dthWeighting</a>	Filters access by the bandwidth weighting of an instance	String
<a href="#">ec2:Insta nceCount</a>	Filters access by the number of instances	Numeric
<a href="#">ec2:InstanceID</a>	Filters access by the ID of an instance	String
<a href="#">ec2:Insta nceMarketType</a>	Filters access by the market or purchasing option of an instance (capacity-block, on-demand, or spot)	String
<a href="#">ec2:Insta nceMatchCriteria</a>	Filters access by the type of instance launches that the Capacity Reservation accepts	String
<a href="#">ec2:Insta nceMetada taTags</a>	Filters access by whether the instance allows access to instance tags from the instance metadata	String
<a href="#">ec2:Insta ncePlatform</a>	Filters access by the type of operating system for which the Capacity Reservation reserves capacity	ARN
<a href="#">ec2:Insta nceProfile</a>	Filters access by the ARN of an instance profile	ARN

Condition keys	Description	Type
<a href="#">ec2:InstanceType</a>	Filters access by the type of instance	String
<a href="#">ec2:InternetGatewayID</a>	Filters access by the ID of an internet gateway	String
<a href="#">ec2:InterruptibleCapacityReservationId</a>	Filters access by the ID of an interruptible Capacity Reservation	String
<a href="#">ec2:InterruptionType</a>	Filters access by the type of interruption	String
<a href="#">ec2:IpamPrefixListResolverTargetId</a>	Filters access by the IPAM prefix list resolver target ID that is syncing CIDRs to a managed prefix list	String
<a href="#">ec2:Ipv4IpamPoolId</a>	Filters access by the ID of an IPAM pool provided for IPv4 CIDR block allocation	String
<a href="#">ec2:Ipv6IpamPoolId</a>	Filters access by the ID of an IPAM pool provided for IPv6 CIDR block allocation	String
<a href="#">ec2:IsInterruptible</a>	Filters access by whether Capacity Reservations are interruptible	Bool
<a href="#">ec2:IsLaunchTemplateResource</a>	Filters access by whether users are able to override resources that are specified in the launch template	Bool
<a href="#">ec2:KeyPairName</a>	Filters access by the name of a key pair	String
<a href="#">ec2:KeyPairType</a>	Filters access by the type of a key pair	String

Condition keys	Description	Type
<a href="#">ec2:KmsKeyId</a>	Filters access by the ID of an AWS KMS key provided in the request	String
<a href="#">ec2:LaunchTemplate</a>	Filters access by the ARN of a launch template	ARN
<a href="#">ec2:Location</a>	Filters access by the destination for the snapshot copy	String
<a href="#">ec2:ManagedResourceOperator</a>	Filters access by the presence of an EC2 operator provisioning a managed resource	String
<a href="#">ec2:MetadataHttpEndpoint</a>	Filters access by whether the HTTP endpoint is enabled for the instance metadata service	String
<a href="#">ec2:MetadataHttpPutResponseHopLimit</a>	Filters access by the allowed number of hops when calling the instance metadata service	Numeric
<a href="#">ec2:MetadataHttpTokens</a>	Filters access by whether tokens are required when calling the instance metadata service (optional or required)	String
<a href="#">ec2:NetworkAclID</a>	Filters access by the ID of a network access control list (ACL)	String
<a href="#">ec2:NetworkInterfaceID</a>	Filters access by the ID of an elastic network interface	String
<a href="#">ec2:NewInstanceProfile</a>	Filters access by the ARN of the instance profile being attached	ARN
<a href="#">ec2:OutpostArn</a>	Filters access by the ARN of the Outpost	ARN
<a href="#">ec2:Owner</a>	Filters access by the owner of the resource (amazon, aws-marketplace, or an AWS account ID)	String

Condition keys	Description	Type
<a href="#">ec2:ParentSnapshot</a>	Filters access by the ARN of the parent snapshot	ARN
<a href="#">ec2:ParentVolume</a>	Filters access by the ARN of the parent volume from which the snapshot was created	ARN
<a href="#">ec2:Permission</a>	Filters access by the type of permission for a resource (INSTANCE-ATTACH or EIP-ASSOCIATE)	String
<a href="#">ec2:Phase1DHGroup</a>	Filters access by the Diffie-Hellman group numbers that are permitted for a VPN tunnel for the phase 1 IKE negotiations	ArrayOfString
<a href="#">ec2:Phase1EncryptionAlgorithms</a>	Filters access by the encryption algorithms that are permitted for a VPN tunnel for the phase 1 IKE negotiations	ArrayOfString
<a href="#">ec2:Phase1IntegrityAlgorithms</a>	Filters access by the integrity algorithms that are permitted for a VPN tunnel for the phase 1 IKE negotiations	ArrayOfString
<a href="#">ec2:Phase1LifetimeSeconds</a>	Filters access by the lifetime in seconds for phase 1 of the IKE negotiations for a VPN tunnel	Numeric
<a href="#">ec2:Phase2DHGroup</a>	Filters access by the Diffie-Hellman group numbers that are permitted for a VPN tunnel for the phase 2 IKE negotiations	ArrayOfString
<a href="#">ec2:Phase2EncryptionAlgorithms</a>	Filters access by the encryption algorithms that are permitted for a VPN tunnel for the phase 2 IKE negotiations	ArrayOfString
<a href="#">ec2:Phase2IntegrityAlgorithms</a>	Filters access by the integrity algorithms that are permitted for a VPN tunnel for the phase 2 IKE negotiations	ArrayOfString

Condition keys	Description	Type
<a href="#">ec2:Phase2LifetimeSeconds</a>	Filters access by the lifetime in seconds for phase 2 of the IKE negotiations for a VPN tunnel	Numeric
<a href="#">ec2:PlacementGroup</a>	Filters access by the ARN of the placement group	ARN
<a href="#">ec2:PlacementGroupName</a>	Filters access by the name of a placement group	String
<a href="#">ec2:PlacementGroupStrategy</a>	Filters access by the instance placement strategy used by the placement group (cluster, spread, or partition)	String
<a href="#">ec2:ProductCode</a>	Filters access by the product code that is associated with the AMI	String
<a href="#">ec2:Public</a>	Filters access by whether the image has public launch permissions	Bool
<a href="#">ec2:PublicIpAddress</a>	Filters access by a public IP address	String
<a href="#">ec2:Quantity</a>	Filters access by the number of Dedicated Hosts in a request	Numeric
<a href="#">ec2:Region</a>	Filters access by the name of the AWS Region	String
<a href="#">ec2:RekeyFuzzPercentage</a>	Filters access by the percentage of increase of the rekey window (determined by the rekey margin time) within which the rekey time is randomly selected for a VPN tunnel	Numeric
<a href="#">ec2:RekeyMarginTimeSeconds</a>	Filters access by the margin time before the phase 2 lifetime expires for a VPN tunnel	Numeric

Condition keys	Description	Type
<a href="#">ec2:Remove/group</a>	Filters access by the group being removed from a snapshot	String
<a href="#">ec2:Remove/userId</a>	Filters access by the account id being removed from a snapshot	String
<a href="#">ec2:ReplayWindowSizePackets</a>	Filters access by the number of packets in an IKE replay window	String
<a href="#">ec2:RequesterVpc</a>	Filters access by the ARN of a requester VPC in a VPC peering connection	ARN
<a href="#">ec2:ReservedInstancesOfferingType</a>	Filters access by the payment option of the Reserved Instance offering (No Upfront, Partial Upfront, or All Upfront)	String
<a href="#">ec2:ResourceTag/{TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">ec2:RoleDelivery</a>	Filters access by the version of the instance metadata service for retrieving IAM role credentials for EC2	Numeric
<a href="#">ec2:RootDeviceType</a>	Filters access by the root device type of the instance (ebs or instance-store)	String
<a href="#">ec2:RouteTableID</a>	Filters access by the ID of a route table	String
<a href="#">ec2:RoutingType</a>	Filters access by the routing type for the VPN connection	String
<a href="#">ec2:SamlProviderArn</a>	Filters access by the ARN of the IAM SAML identity provider	ARN

Condition keys	Description	Type
<a href="#">ec2:SecurityGroupID</a>	Filters access by the ID of a security group	String
<a href="#">ec2:ServerCertificateArn</a>	Filters access by the ARN of the server certificate	ARN
<a href="#">ec2:SnapshotsCoolOffPeriod</a>	Filters access by the compliance mode cooling-off period	Numeric
<a href="#">ec2:SnapshotID</a>	Filters access by the ID of a snapshot	String
<a href="#">ec2:SnapshotsLockDuration</a>	Filters access by the snapshot lock duration	Numeric
<a href="#">ec2:SnapshotsTime</a>	Filters access by the initiation time of a snapshot	String
<a href="#">ec2:SourceAvailabilityZone</a>	Filters access by the name of the Availability Zone from which the request originated	String
<a href="#">ec2:SourceCapacityReservationId</a>	Filters access by the ID of the Capacity Reservation from which you want to move capacity	ARN
<a href="#">ec2:SourceInstanceARN</a>	Filters access by the ARN of the instance from which the request originated	ARN
<a href="#">ec2:SourceOutpostArn</a>	Filters access by the ARN of the Outpost from which the request originated	ARN
<a href="#">ec2:Subnet</a>	Filters access by the ARN of the subnet	ARN
<a href="#">ec2:SubnetID</a>	Filters access by the ID of a subnet	String
<a href="#">ec2:TargetInstanceCount</a>	Filters access by the number of instances the interruptible Capacity Reservation is assigned	Numeric

Condition keys	Description	Type
<a href="#">ec2:Tenancy</a>	Filters access by the tenancy of the VPC or instance (default, dedicated, or host)	String
<a href="#">ec2:VolumeID</a>	Filters access by the ID of a volume	String
<a href="#">ec2:VolumeInitializationRate</a>	Filters access by the initialization rate of the volume, in MiBps	Numeric
<a href="#">ec2:VolumeIops</a>	Filters access by the the number of input/output operations per second (IOPS) provisioned for the volume	Numeric
<a href="#">ec2:VolumeSize</a>	Filters access by the size of the volume, in GiB	Numeric
<a href="#">ec2:VolumeThroughput</a>	Filters access by the throughput of the volume, in MiBps	Numeric
<a href="#">ec2:VolumeType</a>	Filters access by the type of volume (gp2, gp3, io1, io2, st1, sc1, or standard)	String
<a href="#">ec2:Vpc</a>	Filters access by the ARN of the VPC	ARN
<a href="#">ec2:VpcID</a>	Filters access by the ID of a virtual private cloud (VPC)	String
<a href="#">ec2:VpcPeeringConnectionID</a>	Filters access by the ID of a VPC peering connection	String
<a href="#">ec2:VpcMultiRegion</a>	Filters access by multi region of the VPC endpoint service	String
<a href="#">ec2:VpcPrivateDnsPreference</a>	Filters access by the private DNS preference	String



Condition keys	Description	Type
<a href="#">ec2:VpcePrivateDnsSpecifiedDomains</a>	Filters access by the private DNS domains	ArrayOfString
<a href="#">ec2:VpceServiceName</a>	Filters access by the name of the VPC endpoint service	String
<a href="#">ec2:VpceServiceOwner</a>	Filters access by the service owner of the VPC endpoint service (amazon, aws-marketplace, or an AWS account ID)	String
<a href="#">ec2:VpceServicePrivateDnsName</a>	Filters access by the private DNS name of the VPC endpoint service	String
<a href="#">ec2:VpceServiceRegion</a>	Filters access by the region of the VPC endpoint service	String
<a href="#">ec2:VpceSupportedRegion</a>	Filters access by the supported region of the VPC endpoint service	String
<a href="#">ec2:transitGatewayAttachmentId</a>	Filters access by the ID of a transit gateway attachment	String
<a href="#">ec2:transitGatewayConnectPeerId</a>	Filters access by the ID of a transit gateway connect peer	String
<a href="#">ec2:transitGatewayId</a>	Filters access by the ID of a transit gateway	String
<a href="#">ec2:transitGatewayMeteringPolicyId</a>	Filters access by the ID of a metering policy id	String

Condition keys	Description	Type
<a href="#">ec2:transitGatewayMulticastDomainId</a>	Filters access by the ID of a transit gateway multicast domain	String
<a href="#">ec2:transitGatewayPolicyTableId</a>	Filters access by the ID of a transit gateway policy table	String
<a href="#">ec2:transitGatewayRouteTableAnnouncementId</a>	Filters access by the ID of a transit gateway route table announcement	String
<a href="#">ec2:transitGatewayRouteTableId</a>	Filters access by the ID of a transit gateway route table	String

## Actions, resources, and condition keys for Amazon EC2 Auto Scaling

Amazon EC2 Auto Scaling (service prefix: `autoscaling`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EC2 Auto Scaling](#)
- [Resource types defined by Amazon EC2 Auto Scaling](#)
- [Condition keys for Amazon EC2 Auto Scaling](#)

## Actions defined by Amazon EC2 Auto Scaling

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachInstances</a>	Grants permission to attach one or more EC2 instances to the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">AttachLoadBalancerTargetGroups</a>	Grants permission to attach one or more target groups to the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">autoscaling:TargetGroupARNs</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachLoadBalancers</a>	Grants permission to attach one or more load balancers to the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">AttachTrafficSources</a>	Grants permission to attach one or more traffic sources to an Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteScheduledAction</a>	Grants permission to delete the specified scheduled actions	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">BatchPutScheduledUpdateGroupAction</a>	Grants permission to create or update multiple scheduled scaling actions for an Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CancelInstanceRefresh</a>	Grants permission to cancel an instance refresh operation in progress	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CompleteLifecycleAction</a>	Grants permission to complete the lifecycle action for the specified token or instance with the specified result	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateAutoScalingGroup</a>	Grants permission to create an Auto Scaling group with the specified name and attributes	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:CreateServiceLinkedRole  iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">autoscaling:ImageId</a> <a href="#">autoscaling:CapacityReservationIds</a> <a href="#">autoscaling:CapacityReservationResourceGroupArns</a> <a href="#">autoscaling:InstanceTypes</a> <a href="#">autoscaling:LaunchConfigurationName</a> <a href="#">autoscaling:LaunchTemplateVersionSpecified</a> <a href="#">autoscaling:LoadBa</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">lancerNames</a> <a href="#">autoscaling:MaxSize</a> <a href="#">autoscaling:MinSize</a> <a href="#">autoscaling:TargetGroupARNs</a> <a href="#">autoscaling:TrafficSourceIdentifiers</a> <a href="#">autoscaling:VPCZoneIdentifiers</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLaunchConfiguration</a>	Grants permission to create a launch configuration	Write	<a href="#">launchConfiguration*</a>	<a href="#">autoscaling:ImageId</a> <a href="#">autoscaling:InstanceType</a> <a href="#">autoscaling:SpotPrice</a> <a href="#">autoscaling:MetadataHttpTokens</a> <a href="#">autoscaling:MetadataHttpPutResponseHopLimit</a> <a href="#">autoscaling:MetadataHttpEndpoint</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOrUpdateTags</a>	Grants permission to create or update tags for the specified Auto Scaling group	Tagging	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAutoScalingGroup</a>	Grants permission to delete the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ForceDelete</a>  <a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLaunchConfiguration</a>	Grants permission to delete the specified launch configuration	Write	<a href="#">launchConfiguration*</a>		
<a href="#">DeleteLifecycleHook</a>	Grants permission to deletes the specified lifecycle hook	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteNotificationConfiguration</a>	Grants permission to delete the specified notification	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePolicy</a>	Grants permission to delete the specified Auto Scaling policy	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteScheduledAction</a>	Grants permission to delete the specified scheduled action	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTags</a>	Grants permission to delete the specified tags	Tagging	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteWarmPool</a>	Grants permission to delete the warm pool associated with the Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>	
<a href="#">DescribeAccountLimits</a>	Grants permission to describe the current Auto Scaling resource limits for your AWS account	List			
<a href="#">DescribeAccountSettings</a>	Grants permission to describe the current Amazon EC2 Auto Scaling account settings for your account	List			
<a href="#">DescribeAdjustmentTypes</a>	Grants permission to describe the policy adjustment types for use with PutScalingPolicy	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAutoScalingGroups</a>	Grants permission to describe one or more Auto Scaling groups. If a list of names is not provided, the call describes all Auto Scaling groups	List			
<a href="#">DescribeAutoScalingInstances</a>	Grants permission to describe one or more Auto Scaling instances. If a list is not provided, the call describes all instances	List			
<a href="#">DescribeAutoScalingNotificationTypes</a>	Grants permission to describe the notification types that are supported by Auto Scaling	List			
<a href="#">DescribeInstanceRefreshes</a>	Grants permission to describe one or more instance refreshes for an Auto Scaling group	List			
<a href="#">DescribeLaunchConfigurations</a>	Grants permission to describe one or more launch configurations. If you omit the list of names, then the call describes all launch configurations	List			
<a href="#">DescribeLifecycleHookTypes</a>	Grants permission to describe the available types of lifecycle hooks	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLifecycleHooks</a>	Grants permission to describe the lifecycle hooks for the specified Auto Scaling group	List			
<a href="#">DescribeLoadBalancerTargetGroups</a>	Grants permission to describe the target groups for the specified Auto Scaling group	List			
<a href="#">DescribeLoadBalancers</a>	Grants permission to describe the load balancers for the specified Auto Scaling group	List			
<a href="#">DescribeMetricCollectionTypes</a>	Grants permission to describe the available CloudWatch metrics for Auto Scaling	List			
<a href="#">DescribeNotificationConfigurations</a>	Grants permission to describe the notification actions associated with the specified Auto Scaling group	List			
<a href="#">DescribePolicies</a>	Grants permission to describe the policies for the specified Auto Scaling group	List			
<a href="#">DescribeScalingActivities</a>	Grants permission to describe one or more scaling activities for the specified Auto Scaling group	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeScalingProcessTypes</a>	Grants permission to describe the scaling process types for use with ResumeProcesses and SuspendProcesses	List			
<a href="#">DescribeScheduledActions</a>	Grants permission to describe the actions scheduled for your Auto Scaling group that haven't run	List			
<a href="#">DescribeTags</a>	Grants permission to describe the specified tags	Read			
<a href="#">DescribeTerminationPolicyTypes</a>	Grants permission to describe the termination policies supported by Auto Scaling	List			
<a href="#">DescribeTrafficSources</a>	Grants permission to describe the target groups for the specified Auto Scaling group	List			
<a href="#">DescribeWarmPool</a>	Grants permission to describe the warm pool associated with the Auto Scaling group	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachInstances</a>	Grants permission to remove one or more instances from the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DetachLoadBalancerTargetGroups</a>	Grants permission to detach one or more target groups from the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">autoscaling:TargetGroupARNs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachLoadBalancers</a>	Grants permission to remove one or more load balancers from the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">autoscaling:LoadBalancerNames</a>
<a href="#">DetachTrafficSources</a>	Grants permission to detach one or more traffic sources from an Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">autoscaling:TrafficSourceIdentifiers</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableMetricsCollection</a>	Grants permission to disable monitoring of the specified metrics for the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">EnableMetricsCollection</a>	Grants permission to enable monitoring of the specified metrics for the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">EnterStandby</a>	Grants permission to move the specified instances into Standby mode	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExecutePolicy</a>	Grants permission to execute the specified policy	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ExitStandby</a>	Grants permission to move the specified instances out of Standby mode	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetPredictiveScalingForecast</a>	Grants permission to retrieve the forecast data for a predictive scaling policy	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LaunchInstances</a>	Grants permission to launch one or more EC2 instances in the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutAccountSetting</a>	Grants permission to modify an account setting for your account	Write			
<a href="#">PutLifecycleHook</a>	Grants permission to create or update a lifecycle hook for the specified Auto Scaling Group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutNotificationConfiguration</a>	Grants permission to configure an Auto Scaling group to send notifications when specified events take place	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutScalingPolicy</a>	Grants permission to create or update a policy for an Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutScheduledUpdateGroupAction</a>	Grants permission to create or update a scheduled scaling action for an Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">autoscaling:MaxSize</a> <a href="#">autoscaling:MinSize</a>	
<a href="#">PutWarmPool</a>	Grants permission to create or update the warm pool associated with the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RecordLifecycleActionHeartbeat</a>	Grants permission to record a heartbeat for the lifecycle action associated with the specified token or instance	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResumeProcesses</a>	Grants permission to resume the specified suspended Auto Scaling processes, or all suspended process, for the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RollbackInstanceRefresh</a>	Grants permission to rollback an instance refresh operation in progress	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetDesiredCapacity</a>	Grants permission to set the size of the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetInstanceHealth</a>	Grants permission to set the health status of the specified instance	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetInstanceProtection</a>	Grants permission to update the instance protection settings of the specified instances	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartInstanceRefresh</a>	Grants permission to start a new instance refresh operation	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">autoscaling:ImageId</a>	
<a href="#">SuspendProcesses</a>	Grants permission to suspend the specified Auto Scaling processes, or all processes, for the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TerminateInstanceAutoScalingGroup</a>	Grants permission to terminate the specified instance and optionally adjust the desired group size	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAutoScalingGroup</a>	Grants permission to update the configuration for the specified Auto Scaling group	Write	<a href="#">autoScalingGroup*</a>	<a href="#">autoscaling:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">autoscaling:ImageId</a> <a href="#">autoscaling:CapacityReservationIds</a> <a href="#">autoscaling:CapacityReservationResourceGroupArns</a> <a href="#">autoscaling:InstanceTypes</a> <a href="#">autoscaling:LaunchConfigurationName</a> <a href="#">autoscaling:LaunchTemplateVersionSpecified</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">autoscaling:MaxSize</a> <a href="#">autoscaling:MinSize</a> <a href="#">autoscaling:VPCZoneIdentifiers</a>	

## Resource types defined by Amazon EC2 Auto Scaling

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">autoScalingGroup</a>	arn:\${Partition}:autoscaling:\${Region}:\${Account}:autoScalingGroup:\${GroupId}:autoScalingGroupName/\${GroupFriendlyName}	<a href="#">autoscaling:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">launchConfiguration</a>	arn:\${Partition}:autoscaling:\${Region}:\${Account}:launchConfiguration:\${	

Resource types	ARN	Condition keys
	Id}:launchConfigurationName/{Launch ConfigurationName}	

## Condition keys for Amazon EC2 Auto Scaling

Amazon EC2 Auto Scaling defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">autoscaling:CapacityReservationIds</a>	Filters access based on the Capacity Reservation IDs	ArrayOfString
<a href="#">autoscaling:CapacityReservationResourceGroupArns</a>	Filters access based on the ARN of a Capacity Reservation resource group	ArrayOfString
<a href="#">autoscaling:ForceDelete</a>	Filters access based on whether the force delete option is specified when deleting an Auto Scaling group	Bool
<a href="#">autoscaling:ImageId</a>	Filters access based on the AMI ID for the launch configuration	String
<a href="#">autoscaling:InstanceType</a>	Filters access based on the instance type for the launch configuration	String

Condition keys	Description	Type
<a href="#">autoscaling:InstanceTypes</a>	Filters access based on the instance types present as overrides to a launch template for a mixed instances policy. Use it to qualify which instance types can be explicitly defined in the policy	String
<a href="#">autoscaling:LaunchConfigurationName</a>	Filters access based on the name of a launch configuration	String
<a href="#">autoscaling:LaunchTemplateVersionSpecified</a>	Filters access based on whether users can specify any version of a launch template or only the Latest or Default version	Bool
<a href="#">autoscaling:LoadBalancerNames</a>	Filters access based on the name of the load balancer	ArrayOfString
<a href="#">autoscaling:MaxSize</a>	Filters access based on the maximum scaling size in the request	Numeric
<a href="#">autoscaling:MetadataHttpEndpoint</a>	Filters access based on whether the HTTP endpoint is enabled for the instance metadata service	String
<a href="#">autoscaling:MetadataHttpPutResponseHopLimit</a>	Filters access based on the allowed number of hops when calling the instance metadata service	Numeric
<a href="#">autoscaling:MetadataHttpTokens</a>	Filters access based on whether tokens are required when calling the instance metadata service (optional or required)	String



Condition keys	Description	Type
<a href="#">autoscaling:MinSize</a>	Filters access based on the minimum scaling size in the request	Numeric
<a href="#">autoscaling:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">autoscaling:SpotPrice</a>	Filters access based on the price for Spot Instances for the launch configuration	Numeric
<a href="#">autoscaling:TargetGroupARNs</a>	Filters access based on the ARN of a target group	ArrayOfARN
<a href="#">autoscaling:TrafficSourceIdentifiers</a>	Filters access based on the identifiers of the traffic sources	ArrayOfString
<a href="#">autoscaling:VPCZoneIdentifiers</a>	Filters access based on the identifier of a VPC zone	ArrayOfString
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon EC2 Image Builder

Amazon EC2 Image Builder (service prefix: `imagebuilder`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EC2 Image Builder](#)
- [Resource types defined by Amazon EC2 Image Builder](#)
- [Condition keys for Amazon EC2 Image Builder](#)

## Actions defined by Amazon EC2 Image Builder

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelImageCreation</a>	Grants permission to cancel an image creation	Write	<a href="#">image*</a>		
<a href="#">CancelLifecycleExecution</a>	Grants permission to cancel a lifecycle execution	Write	<a href="#">lifecycleExecution*</a>		
<a href="#">CreateComponent</a>	Grants permission to create a new component	Write	<a href="#">component*</a>		imagebuilder:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kms:Encrypt kms:GenerateDataKey kms:GenerateDataKeyWithoutPlaintext s3:GetObject s3:ListBucket
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateContainerRecipe</a>	Grants permission to create a new Container Recipe	Write	<a href="#">containerRecipe*</a>		ec2:DescribeImages ecr:DescribeImages ecr:DescribeRepositories imagebuilder:GetComponent imagebuilder:GetImage imagebuilder:TagResource kms:Encrypt kms:GenerateDataKey kms:GenerateDataKeyWithoutPlaintext

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:GetObject s3:ListBucket ssm:GetParameter
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDistributionConfiguration</a>	Grants permission to create a new distribution configuration	Write	<a href="#">distributionConfiguration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateLaunchTemplateVersion  ec2:DescribeLaunchTemplates  ec2:ModifyLaunchTemplate  imagebuilder:TagResource  s3:ListBucket  ssm:GetParameter

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateImage</a>	Grants permission to create a new image	Write	<a href="#">image*</a>		ecr:BatchGetRepositoryScanningConfiguration  ecr:DescribeRepositories  iam:CreateServiceLinkedRole  iam:PassRole  imagebuilder:GetContainerRecipe  imagebuilder:GetDistributionConfiguration  imagebuilder:GetImageRecipe  imagebuilder:GetIn



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					frastructureConfiguration imagebuilder:GetWorkflow imagebuilder:TagResource inspector2:BatchGetAccountStatus
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateImagePipeline</a>	Grants permission to create a new image pipeline	Write	<a href="#">imagePipeline*</a>		ecr:BatchGetRepositoryScanningConfiguration  ecr:DescribeRepositories  iam:CreateServiceLinkedRole  iam:PassRole  imagebuilder:GetContainerRecipe  imagebuilder:GetDistributionConfiguration  imagebuilder:GetImageRecipe  imagebuilder:GetIn

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					frastructureConfiguration imagebuilder:GetWorkflow imagebuilder:TagResource inspector2:BatchGetAccountStatus
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateImageRecipe</a>	Grants permission to create a new Image Recipe	Write	<a href="#">imageRecipe*</a>		ec2:DescribeImages  imagebuilder:GetComponent  imagebuilder:GetImage  imagebuilder:TagResource  ssm:GetParameter
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInfrastructureConfiguration</a>	Grants permission to create a new infrastructure configuration	Write	<a href="#">infrastructureConfiguration</a> *		ec2:DescribeAvailabilityZones  ec2:DescribeHosts  iam:PassRole  imagebuilder:TagResource  resource-groups:GetGroup  sns:Publish

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">imagebuilder:CreateResourceTagKeys</a> <a href="#">imagebuilder:CreateResourceTag/\${TagKey}</a> <a href="#">imagebuilder:Ec2MetadataHttpTokens</a> <a href="#">imagebuilder:StatusTopicArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLifecyclePolicy</a>	Grants permission to create a new lifecycle policy	Write	<a href="#">lifecyclePolicy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">imagebuilder:LifecyclePolicyResourceType</a>	iam:PassRole  imagebuilder:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkflow</a>	Grants permission to create a new workflow	Write	<a href="#">workflow*</a>		imagebuilder:TagResource  kms:Encrypt  kms:GenerateDataKey  kms:GenerateDataKeyWithoutPlaintext  s3:GetObject  s3:ListBucket
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteComponent</a>	Grants permission to delete a component	Write	<a href="#">component*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteContainerRecipe</a>	Grants permission to delete a container recipe	Write	<a href="#">containerRecipe*</a>		
<a href="#">DeleteDistributionConfiguration</a>	Grants permission to delete a distribution configuration	Write	<a href="#">distributionConfiguration*</a>		
<a href="#">DeleteImage</a>	Grants permission to delete an image	Write	<a href="#">image*</a>		
<a href="#">DeleteImagePipeline</a>	Grants permission to delete an image pipeline	Write	<a href="#">imagePipeline*</a>		
<a href="#">DeleteImageRecipe</a>	Grants permission to delete an image recipe	Write	<a href="#">imageRecipe*</a>		
<a href="#">DeleteInfrastructureConfiguration</a>	Grants permission to delete an infrastructure configuration	Write	<a href="#">infrastructureConfiguration*</a>		
<a href="#">DeleteLifecyclePolicy</a>	Grants permission to delete a lifecycle policy	Write	<a href="#">lifecyclePolicy*</a>		
<a href="#">DeleteWorkflow</a>	Grants permission to delete a workflow	Write	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DistributeImage</a>	Grants permission to distribute an image	Write	<a href="#">image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:DescribeImages  iam:PassRole  imagebuilder:GetDistributionConfiguration  imagebuilder:GetImage  imagebuilder:TagResource  ssm:GetParameter
<a href="#">GetComponent</a>	Grants permission to view details about a component	Read	<a href="#">component*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetComponentPolicy</a>	Grants permission to view the resource policy associated with a component	Read	<a href="#">component*</a>		
<a href="#">GetContainerRecipe</a>	Grants permission to view details about a container recipe	Read	<a href="#">containerRecipe*</a>		
<a href="#">GetContainerRecipePolicy</a>	Grants permission to view the resource policy associated with a container recipe	Read	<a href="#">containerRecipe*</a>		
<a href="#">GetDistributionConfiguration</a>	Grants permission to view details about a distribution configuration	Read	<a href="#">distributionConfiguration*</a>		
<a href="#">GetImage</a>	Grants permission to view details about an image	Read	<a href="#">image*</a>		
<a href="#">GetImagePipeline</a>	Grants permission to view details about an image pipeline	Read	<a href="#">imagePipeline*</a>		
<a href="#">GetImagePolicy</a>	Grants permission to view the resource policy associated with an image	Read	<a href="#">image*</a>		
<a href="#">GetImageRecipe</a>	Grants permission to view details about an image recipe	Read	<a href="#">imageRecipe*</a>		
<a href="#">GetImageRecipePolicy</a>	Grants permission to view the resource policy associated with an image recipe	Read	<a href="#">imageRecipe*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInfrastructureConfiguration</a>	Grants permission to view details about an infrastructure configuration	Read	<a href="#">infrastructureConfiguration</a> *		
<a href="#">GetLifecycleExecution</a>	Grants permission to view details about a lifecycle execution	Read	<a href="#">lifecycleExecution</a> *		
<a href="#">GetLifecyclePolicy</a>	Grants permission to view details about a lifecycle policy	Read	<a href="#">lifecyclePolicy</a> *		
<a href="#">GetMarketplaceResource</a>	Grants permission to retrieve Marketplace provided resource	Read	<a href="#">component</a> *		
<a href="#">GetWorkflow</a>	Grants permission to view details about a workflow	Read	<a href="#">workflow</a> *		kms:Decrypt
<a href="#">GetWorkflowExecution</a>	Grants permission to view details about a workflow execution	Read	<a href="#">workflowExecution</a> *		
<a href="#">GetWorkflowStepExecution</a>	Grants permission to view details about a workflow step execution	Read	<a href="#">workflowStepExecution</a> *		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportComponent</a>	Grants permission to import a new component	Write	<a href="#">component*</a>		imagebuilder:TagResource  kms:Encrypt  kms:GenerateDataKey  kms:GenerateDataKeyWithoutPlaintext  s3:GetObject  s3:ListBucket
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportDiskImage</a>	Grants permission to import a disk image	Write	<a href="#">imageVersion*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole iam:PassRole imagebuilder:GetInfrastructureConfiguration imagebuilder:GetWorkflow imagebuilder:TagResource s3:GetObject s3:ListBucket

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportVmlmage</a>	Grants permission to import an image	Write	<a href="#">imageVersion*</a>		ec2:DescribeImages  ec2:DescribeImportImageTasks  iam:CreateServiceLinkedRole  imagebuilder:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">ListComponentBuildVersions</a>	Grants permission to list the component build versions in your account	List	<a href="#">allComponentBuildVersions*</a>		
<a href="#">ListComponentVersions</a>	Grants permission to list the component versions owned by or shared with your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListContainerRecipes</a>	Grants permission to list the container recipes owned by or shared with your account	List			
<a href="#">ListDistributionConfigurations</a>	Grants permission to list the distribution configurations in your account	List			
<a href="#">ListImageBuildVersions</a>	Grants permission to list the image build versions in your account	List	<a href="#">allImageBuildVersions*</a>		
<a href="#">ListImagePackages</a>	Grants permission to return a list of packages installed on the specified image	List	<a href="#">image*</a>		
<a href="#">ListImagePipelinelines</a>	Grants permission to return a list of images created by the specified pipeline	List	<a href="#">imagePipeline*</a>		
<a href="#">ListImagePipelines</a>	Grants permission to list the image pipelines in your account	List			
<a href="#">ListImageRecipes</a>	Grants permission to list the image recipes owned by or shared with your account	List			
<a href="#">ListImageScanFindingsAggregations</a>	Grants permission to list aggregations on the image scan findings in your account	List	<a href="#">image</a>		
			<a href="#">imagePipeline</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListImageScanFindings</a>	Grants permission to list the image scan findings for the images in your account	List	<a href="#">image</a>		inspector2:ListFindings
			<a href="#">imagePipeline</a>		
<a href="#">ListImages</a>	Grants permission to list the image versions owned by or shared with your account	List			
<a href="#">ListInfrastructureConfigurations</a>	Grants permission to list the infrastructure configurations in your account	List			
<a href="#">ListLifecycleExecutionResources</a>	Grants permission to list resources for the specified lifecycle execution	List	<a href="#">lifecycleExecution*</a>		
<a href="#">ListLifecycleExecutions</a>	Grants permission to list lifecycle executions for the specified resource	List	<a href="#">image</a>		
			<a href="#">lifecyclePolicy</a>		
<a href="#">ListLifecyclePolicies</a>	Grants permission to list the lifecycle policies in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an Image Builder resource	Read	<a href="#">component</a>		
			<a href="#">containerRecipe</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">distributionConfiguration</a>		
			<a href="#">image</a>		
			<a href="#">imagePipeline</a>		
			<a href="#">imageRecipe</a>		
			<a href="#">infrastructureConfiguration</a>		
			<a href="#">lifecyclePolicy</a>		
			<a href="#">workflow</a>		
<a href="#">ListWaitingWorkflowSteps</a>	Grants permission to list waiting workflow steps for the caller account	List			
<a href="#">ListWorkflowBuildVersions</a>	Grants permission to list the workflow build versions in your account	List	<a href="#">allWorkflowBuildVersions*</a>		
<a href="#">ListWorkflowExecutions</a>	Grants permission to list workflow executions for the specified image	List	<a href="#">image*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListWorkflowStepExecutions</a>	Grants permission to list workflow step executions for the specified workflow	List	<a href="#">workflowExecution*</a>		kms:Decrypt
<a href="#">ListWorkflows</a>	Grants permission to list the workflow versions owned by or shared with your account	List			
<a href="#">PutComponentPolicy</a>	Grants permission to set the resource policy associated with a component	Permissions management	<a href="#">component*</a>		
<a href="#">PutContainerRecipePolicy</a>	Grants permission to set the resource policy associated with a container recipe	Permissions management	<a href="#">containerRecipe*</a>		
<a href="#">PutImagePolicy</a>	Grants permission to set the resource policy associated with an image	Permissions management	<a href="#">image*</a>		
<a href="#">PutImageRecipePolicy</a>	Grants permission to set the resource policy associated with an image recipe	Permissions management	<a href="#">imageRecipe*</a>		
<a href="#">RetryImage</a>	Grants permission to retry an image creation	Write	<a href="#">image*</a>		
<a href="#">SendWorkflowStepAction</a>	Grants permission to send an action to a workflow step	Write	<a href="#">image*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workflowStepExecution*</a>		
<a href="#">StartImagePipelineExecution</a>	Grants permission to create a new image from a pipeline	Write	<a href="#">imagePipeline*</a>		iam:CreateServiceLinkedRole  imagebuilder:GetImagePipeline  imagebuilder:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">StartResourceStateUpdate</a>	Grants permission to start a state update for the specified resource	Write	<a href="#">image*</a>		
<a href="#">TagResource</a>	Grants permission to tag an Image Builder resource	Tagging	<a href="#">component</a>  <a href="#">containerRecipe</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">distributionConfiguration</a>		
			<a href="#">image</a>		
			<a href="#">imagePipeline</a>		
			<a href="#">imageRecipe</a>		
			<a href="#">infrastructureConfiguration</a>		
			<a href="#">lifecyclePolicy</a>		
			<a href="#">workflow</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Image Builder resource	Tagging	<a href="#">component</a>		
			<a href="#">containerRecipe</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">distributionConfiguration</a>		
			<a href="#">image</a>		
			<a href="#">imagePipeline</a>		
			<a href="#">imageRecipe</a>		
			<a href="#">infrastructureConfiguration</a>		
			<a href="#">lifecyclePolicy</a>		
			<a href="#">workflow</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDistributionConfiguration</a>	Grants permission to update an existing distribution configuration	Write	<a href="#">distributionConfiguration*</a>		ec2:CreateLaunchTemplateVersion ec2:DescribeLaunchTemplates ec2:ModifyLaunchTemplate s3:ListBucket ssm:GetParameter

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateImagePipeline</a>	Grants permission to update an existing image pipeline	Write	<a href="#">imagePipeline*</a>		ecr:BatchGetRepositoryScanningConfiguration  ecr:DescribeRepositories  iam:CreateServiceLinkedRole  iam:PassRole  imagebuilder:GetContainerRecipe  imagebuilder:GetDistributionConfiguration  imagebuilder:GetImageRecipe  imagebuilder:GetIn



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					frastructureConfiguration  imagebuilder:GetWorkflow  inspector:BatchGetAccountStatus
<a href="#">UpdateInfrastructureConfiguration</a>	Grants permission to update an existing infrastructure configuration	Write	<a href="#">infrastructureConfiguration</a> * -		ec2:DescribeAvailabilityZones  ec2:DescribeHosts  iam:PassRole  resource-groups:GetGroup  sns:Publish

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">imagebuilder:CreateResourceTagKeys</a>  <a href="#">imagebuilder:CreateResourceTag/\${TagKey}</a>  <a href="#">imagebuilder:Ec2MetadataHttpTokens</a>  <a href="#">imagebuilder:StatusTopicArn</a>	
<a href="#">UpdateLifecyclePolicy</a>	Grants permission to update an existing lifecycle policy	Write	<a href="#">lifecyclePolicy*</a>	<a href="#">imagebuilder:LifecyclePolicyResourceType</a>	iam:PassRole

## Resource types defined by Amazon EC2 Image Builder

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">component</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:component/\${ComponentName}/\${ComponentVersion}/\${ComponentBuildVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">distributionConfiguration</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:distribution-configuration/\${DistributionConfigurationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">image</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:image/\${ImageName}/\${ImageVersion}/\${ImageBuildVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">imageVersion</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:image/\${ImageName}/\${ImageVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">imageRecipe</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:image-recipe/\${ImageRecipeName}/\${ImageRecipeVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">containerRecipe</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:container-recipe/\${ContainerRecipeName}/\${ContainerRecipeVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">imagePipeline</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:image-pipeline/\${ImagePipelineName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">infrastructureConfiguration</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:infrastructure-configuration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">lifecycleExecution</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:lifecycle-execution/\${LifecycleExecutionId}	
<a href="#">lifecyclePolicy</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:lifecycle-policy/\${LifecyclePolicyName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workflow</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:workflow/\${WorkflowType}/\${WorkflowName}/\${WorkflowVersion}/\${WorkflowBuildVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workflowExecution</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:workflow-execution/\${WorkflowExecutionId}	
<a href="#">workflowStepExecution</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:workflow-step-execution/\${WorkflowStepExecutionId}	
<a href="#">allComponentBuildVersions</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:component/\${ComponentName}/\${ComponentVersion}/*	

Resource types	ARN	Condition keys
<a href="#">allImageBuildVersions</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:image/\${ImageName}/\${ImageVersion}/*	
<a href="#">allWorkflowBuildVersions</a>	arn:\${Partition}:imagebuilder:\${Region}:\${Account}:workflow/\${WorkflowType}/\${WorkflowName}/\${WorkflowVersion}/*	

## Condition keys for Amazon EC2 Image Builder

Amazon EC2 Image Builder defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">imagebuilder:CreatedResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource created by Image Builder	String

Condition keys	Description	Type
<a href="#">imagebuilder:CreatedResourceTagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">imagebuilder:Ec2MetadataHttpTokens</a>	Filters access by the EC2 Instance Metadata HTTP Token Requirement specified in the request	String
<a href="#">imagebuilder:LifecyclePolicyResourceType</a>	Filters access by the Lifecycle Policy Resource Type specified in the request	String
<a href="#">imagebuilder:StatusTopicArn</a>	Filters access by the SNS Topic Arn in the request to which terminal state notifications will be published	ARN

## Actions, resources, and condition keys for Amazon EC2 Instance Connect

Amazon EC2 Instance Connect (service prefix: `ec2-instance-connect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EC2 Instance Connect](#)
- [Resource types defined by Amazon EC2 Instance Connect](#)

- [Condition keys for Amazon EC2 Instance Connect](#)

## Actions defined by Amazon EC2 Instance Connect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">OpenTunnel</a>	Grants permission to establish SSH connection to an EC2 instance using EC2 Instance Connect Endpoint	Write	<a href="#">instance-connect-endpoint*</a>		
			<a href="#">instance-connect-endpoint</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2:ResourceTag/\${TagKey}</a>	
				<a href="#">ec2-instance-connect:remotePort</a>	
				<a href="#">ec2-instance-</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">connect:privateIpAddress</a> <a href="#">ec2-instance-connect:MaxTunnelDuration</a>	
<a href="#">SendSSHPublicKey</a>	Grants permission to push an SSH public key to the specified EC2 instance to be used for standard SSH	Write	<a href="#">instance*</a>	<a href="#">ec2:osuser</a>	
<a href="#">SendSerialConsoleSHPublicKey</a>	Grants permission to push an SSH public key to the specified EC2 instance to be used for serial console SSH	Write	<a href="#">instance*</a>		

## Resource types defined by Amazon EC2 Instance Connect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">instance</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:instance/\${InstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>
<a href="#">instance-connect-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:instance-connect-endpoint/\${InstanceConnectEndpointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ec2:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EC2 Instance Connect

Amazon EC2 Instance Connect defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">ec2-instance-connect:maxTunnelDuration</a>	Filters access by maximum session duration associated with the instance	Numeric
<a href="#">ec2-instance-connect:privateIpAddress</a>	Filters access by private IP Address associated with the instance	IPAddress

Condition keys	Description	Type
<a href="#">ec2-instance-connect:remotePort</a>	Filters access by port number associated with the instance	Numeric
<a href="#">ec2:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">ec2:osuser</a>	Filters access by specifying the default user name for the AMI that you used to launch your instance	String

## Actions, resources, and condition keys for Amazon ECS MCP Service

Amazon ECS MCP Service (service prefix: `ecs-mcp`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon ECS MCP Service](#)
- [Resource types defined by Amazon ECS MCP Service](#)
- [Condition keys for Amazon ECS MCP Service](#)

## Actions defined by Amazon ECS MCP Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InvokeReadOnlyTools</a>	Grants permission to call read-only tools in MCP service	Read			
<a href="#">UseMcp</a>	Grants permission to use MCP service	Read			

## Resource types defined by Amazon ECS MCP Service

Amazon ECS MCP Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon ECS MCP Service, specify "Resource": "\*" in your policy.

## Condition keys for Amazon ECS MCP Service

ECS MCP has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon EKS Auth

Amazon EKS Auth (service prefix: eks-auth) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon EKS Auth](#)

- [Resource types defined by Amazon EKS Auth](#)
- [Condition keys for Amazon EKS Auth](#)

## Actions defined by Amazon EKS Auth

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssumeRoleForPodIdentity</a>	Grants permission to exchange a Kubernetes service account token for temporary AWS credentials	Read	<a href="#">cluster*</a>		

## Resource types defined by Amazon EKS Auth

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:eks:\${Region}:\${Account}:cluster/\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EKS Auth

Amazon EKS Auth defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String

## Actions, resources, and condition keys for Amazon EKS MCP Server

Amazon EKS MCP Server (service prefix: `eks-mcp`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EKS MCP Server](#)
- [Resource types defined by Amazon EKS MCP Server](#)
- [Condition keys for Amazon EKS MCP Server](#)

## Actions defined by Amazon EKS MCP Server

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,



you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CallPrivilegedTool</a>	Grants permission to call privileged tools in MCP service	Write			
<a href="#">CallReadOnlyTool</a>	Grants permission to call read-only tools in MCP service	Read			
<a href="#">InvokeMcp</a>	Grants permission to use MCP service	Read			

## Resource types defined by Amazon EKS MCP Server

Amazon EKS MCP Server does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon EKS MCP Server, specify "Resource": "\*" in your policy.

## Condition keys for Amazon EKS MCP Server

EKS MCP has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Elastic Beanstalk

AWS Elastic Beanstalk (service prefix: elasticbeanstalk) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elastic Beanstalk](#)
- [Resource types defined by AWS Elastic Beanstalk](#)
- [Condition keys for AWS Elastic Beanstalk](#)

## Actions defined by AWS Elastic Beanstalk

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortEnvironmentUpdate</a>	Grants permission to cancel in-progress environment configuration update or application version deployment	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:Application</a>	
<a href="#">AddTags</a>	Grants permission to add tags to an Elastic Beanstalk resource and to update tag values	Tagging	<a href="#">application</a>		
			<a href="#">applicationversion</a>		
			<a href="#">configurationtemplate</a>		
			<a href="#">environment</a>		
			<a href="#">platform</a>		
				<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ApplyEnvironmentManagedAction</a>	Grants permission to apply a scheduled managed action immediately	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">AssociateEnvironmentOperationsRole</a>	Grants permission to associate an operations role with an environment	Write	<a href="#">environment*</a>		
<a href="#">CheckDNSAvailability</a>	Grants permission to check CNAME availability	Read			
<a href="#">ComposeEnvironments</a>	Grants permission to create or update a group of environments, each running a separate component of a single application	Write	<a href="#">application*</a> <a href="#">application*_</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">CreateApplication</a>	Grants permission to create a new application	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateApplicationVersion</a>	Grants permission to create an application version for an application	Write	<a href="#">application*</a> <a href="#">applicationversion*</a>	<a href="#">elasticbeanstalk:InApplication</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfigurationTemplate</a>	Grants permission to create a configuration template	Write	<a href="#">configurationtemplate*</a>	<a href="#">elasticbeanstalk:InApplication</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticbeanstalk:FromApplication</a> <a href="#">elasticbeanstalk:FromApplicationVersion</a> <a href="#">elasticbeanstalk:FromConfigurationTemplate</a> <a href="#">elasticbeanstalk:FromEnvironment</a> <a href="#">elasticbeanstalk:FromSolutionStack</a> <a href="#">elasticbeanstalk:FromPlatform</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEnvironment</a>	Grants permission to launch an environment for an application	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:Application</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticbeanstalk:FromApplicationVersion</a> <a href="#">elasticbeanstalk:FromConfigurationTemplate</a> <a href="#">elasticbeanstalk:FromSolutionStack</a> <a href="#">elasticbeanstalk:FromPlatform</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePlatformVersion</a>	Grants permission to create a new version of a custom platform	Write	<a href="#">platform*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStorageLocation</a>	Grants permission to create the Amazon S3 storage location for the account	Write			
<a href="#">DeleteApplication</a>	Grants permission to delete an application along with all associated versions and configurations	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationVersion</a>	Grants permission to delete an application version from an application	Write	<a href="#">applicationversion*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">DeleteConfigurationTemplate</a>	Grants permission to delete a configuration template	Write	<a href="#">configurationtemplate*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">DeleteEnvironmentConfiguration</a>	Grants permission to delete the draft configuration associated with the running environment	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePlatformVersion</a>	Grants permission to delete a version of a custom platform	Write	<a href="#">platform*</a>		
<a href="#">DescribeAccountAttributes</a>	Grants permission to retrieve a list of account attributes, including resource quotas	Read			
<a href="#">DescribeApplicationVersions</a>	Grants permission to retrieve a list of application versions stored in an AWS Elastic Beanstalk storage bucket	List	<a href="#">applicationversion</a>	<a href="#">elasticbeanstalk:Application</a>	
<a href="#">DescribeApplications</a>	Grants permission to retrieve the descriptions of existing applications	List	<a href="#">application</a>		
<a href="#">DescribeConfigurationOptions</a>	Grants permission to retrieve descriptions of environment configuration options	Read	<a href="#">configurationtemplate</a>	<a href="#">elasticbeanstalk:Application</a>	
			<a href="#">environment</a>	<a href="#">elasticbeanstalk:Application</a>	
			<a href="#">solutionsstack</a>		
<a href="#">DescribeConfigurationSettings</a>	Grants permission to retrieve a description of the settings for a configuration set	Read	<a href="#">configurationtemplate</a>	<a href="#">elasticbeanstalk:Application</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">environment</a>	<a href="#">elasticbeanstalk:ListApplications</a>	
<a href="#">DescribeEnvironmentHealth</a>	Grants permission to retrieve information about the overall health of an environment	Read	<a href="#">environment</a>		
<a href="#">DescribeEnvironmentManagedActionHistory</a>	Grants permission to retrieve a list of an environment's completed and failed managed actions	Read	<a href="#">environment</a>	<a href="#">elasticbeanstalk:ListApplications</a>	
<a href="#">DescribeEnvironmentManagedActions</a>	Grants permission to retrieve a list of an environment's upcoming and in-progress managed actions	Read	<a href="#">environment</a>	<a href="#">elasticbeanstalk:ListApplications</a>	
<a href="#">DescribeEnvironmentResources</a>	Grants permission to retrieve a list of AWS resources for an environment	Read	<a href="#">environment</a>	<a href="#">elasticbeanstalk:ListApplications</a>	
<a href="#">DescribeEnvironments</a>	Grants permission to retrieve descriptions for existing environments	List	<a href="#">environment</a>	<a href="#">elasticbeanstalk:ListApplications</a>	
<a href="#">DescribeEvents</a>	Grants permission to retrieve a list of event descriptions matching a set of criteria	Read	<a href="#">application</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">applicationversion</a>	<a href="#">elasticbeanstalk:Application</a>	
			<a href="#">configurationtemplate</a>	<a href="#">elasticbeanstalk:Application</a>	
			<a href="#">environment</a>	<a href="#">elasticbeanstalk:Application</a>	
<a href="#">DescribeInstancesHealth</a>	Grants permission to retrieve more detailed information about the health of environment instances	Read	<a href="#">environment</a>		
<a href="#">DescribePlatformVersion</a>	Grants permission to retrieve a description of a managed platform version	Read	<a href="#">platform</a>		
<a href="#">DisassociateEnvironmentOperationsRole</a>	Grants permission to disassociate an operations role with an environment	Write	<a href="#">environment*</a>		
<a href="#">ListAvailableSolutionStacks</a>	Grants permission to retrieve a list of the available solution stack names	List	<a href="#">solutionsstack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPlatformBranches</a>	Grants permission to retrieve a list of the available platform branches	List			
<a href="#">ListPlatformVersions</a>	Grants permission to retrieve a list of the available platforms	List	<a href="#">platform</a>		
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of tags of an Elastic Beanstalk resource	Read	<a href="#">application</a>		
			<a href="#">applicationversion</a>		
			<a href="#">configurationtemplate</a>		
			<a href="#">environment</a>		
			<a href="#">platform</a>		
<a href="#">PutInstanceStatistics</a>	Grants permission to submit instance statistics for enhanced health	Write	<a href="#">application*</a>		
			<a href="#">environment*</a>		
<a href="#">RebuildEnvironment</a>	Grants permission to delete and recreate all of the AWS resources for an environment and to force a restart	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveTags</a>	Grants permission to remove tags from an Elastic Beanstalk resource	Tagging	<a href="#">application</a>		
			<a href="#">applicationversion</a>		
			<a href="#">configurationtemplate</a>		
			<a href="#">environment</a>		
			<a href="#">platform</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">RequestEnvironmentInfo</a>	Grants permission to initiate a request to compile information of the deployed environment	Read	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">RestartApplicationServer</a>	Grants permission to request an environment to restart the application container server running on each Amazon EC2 instance	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">RetrieveEnvironmentInfo</a>	Grants permission to retrieve the compiled information from a RequestEnvironmentInfo request	Read	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SwapEnvironmentCNAMEs</a>	Grants permission to swap the CNAMEs of two environments	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
				<a href="#">elasticbeanstalk:FromEnvironment</a>	
<a href="#">TerminateEnvironment</a>	Grants permission to terminate an environment	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an application with specified properties	Write	<a href="#">application*</a>		
<a href="#">UpdateApplicationResourceLifecycle</a>	Grants permission to update the application version lifecycle policy associated with the application	Write	<a href="#">application*</a>		
<a href="#">UpdateApplicationVersion</a>	Grants permission to update an application version with specified properties	Write	<a href="#">applicationversion*</a>	<a href="#">elasticbeanstalk:InApplication</a>	
<a href="#">UpdateConfigurationTemplate</a>	Grants permission to update a configuration template with specified properties or configuration option values	Write	<a href="#">configurationtemplate*</a>	<a href="#">elasticbeanstalk:InApplication</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticbeanstalk:FromApplication</a> <a href="#">elasticbeanstalk:FromApplicationVersion</a> <a href="#">elasticbeanstalk:FromConfigurationTemplate</a> <a href="#">elasticbeanstalk:FromEnvironment</a> <a href="#">elasticbeanstalk:FromSolutionStack</a> <a href="#">elasticbeanstalk:FromPlatform</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironment</a>	Grants permission to update an environment	Write	<a href="#">environment*</a>	<a href="#">elasticbeanstalk:Application</a>  <a href="#">elasticbeanstalk:FromApplicationVersion</a>  <a href="#">elasticbeanstalk:FromConfigurationTemplate</a>  <a href="#">elasticbeanstalk:FromSolutionStack</a>  <a href="#">elasticbeanstalk:FromPlatform</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTagsForResource</a>	Doesn't grant permission to update tags. To grant permission to add tags to an Elastic Beanstalk resource, remove tags, and to update tag values, specify <code>elasticbeanstalk:AddTags</code> and <code>elasticbeanstalk:RemoveTags</code>	Tagging	<a href="#">application</a>		
			<a href="#">applicationversion</a>		
			<a href="#">configurationtemplate</a>		
			<a href="#">environment</a>		
			<a href="#">platform</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">ValidateConfigurationSettings</a>	Grants permission to check the validity of a set of configuration settings for a configuration template or an environment	Read	<a href="#">configurationtemplate</a>	<a href="#">elasticbeanstalk:InApplication</a>	
			<a href="#">environment</a>	<a href="#">elasticbeanstalk:InApplication</a>	

## Resource types defined by AWS Elastic Beanstalk

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:elasticbeanstalk:\${Region}:\${Account}:application/\${ApplicationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">applicationversion</a>	arn:\${Partition}:elasticbeanstalk:\${Region}:\${Account}:applicationversion/\${ApplicationName}/\${VersionLabel}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticbeanstalk:Application</a>
<a href="#">configurationtemplate</a>	arn:\${Partition}:elasticbeanstalk:\${Region}:\${Account}:configurationtemplate/\${ApplicationName}/\${TemplateName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticbeanstalk:Application</a>
<a href="#">environment</a>	arn:\${Partition}:elasticbeanstalk:\${Region}:\${Account}:environment/\${ApplicationName}/\${EnvironmentName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticbeanstalk:Application</a>
<a href="#">solutionstack</a>	arn:\${Partition}:elasticbeanstalk:\${Region}::solutionstack/\${SolutionStackName}	

Resource types	ARN	Condition keys
<a href="#">platform</a>	arn:\${Partition}:elasticbeanstalk:\${Region}::platform/\${PlatformNameWithVersion}	

## Condition keys for AWS Elastic Beanstalk

AWS Elastic Beanstalk defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString
<a href="#">elasticbeanstalk:FormApplication</a>	Filters access by an application as a dependency or a constraint on an input parameter	ARN
<a href="#">elasticbeanstalk:FormApplicationVersion</a>	Filters access by an application version as a dependency or a constraint on an input parameter	ARN

Condition keys	Description	Type
<a href="#">elasticbeanstalk:FromConfigurationTemplate</a>	Filters access by a configuration template as a dependency or a constraint on an input parameter	ARN
<a href="#">elasticbeanstalk:FromEnvironment</a>	Filters access by an environment as a dependency or a constraint on an input parameter	ARN
<a href="#">elasticbeanstalk:FromPlatform</a>	Filters access by a platform as a dependency or a constraint on an input parameter	ARN
<a href="#">elasticbeanstalk:FromSolutionStack</a>	Filters access by a solution stack as a dependency or a constraint on an input parameter	ARN
<a href="#">elasticbeanstalk:InApplication</a>	Filters access by the application that contains the resource that the action operates on	ARN

## Actions, resources, and condition keys for Amazon Elastic Block Store

Amazon Elastic Block Store (service prefix: ebs) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic Block Store](#)

- [Resource types defined by Amazon Elastic Block Store](#)
- [Condition keys for Amazon Elastic Block Store](#)

## Actions defined by Amazon Elastic Block Store

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CompleteSnapshot</a>	Grants permission to seal and complete the snapshot after all of the required blocks of data have been written to it	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSnapshotBlock</a>	Grants permission to return the data of a block in an Amazon Elastic Block Store (EBS) snapshot	Read	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListChangedBlocks</a>	Grants permission to list the blocks that are different between two Amazon Elastic Block Store (EBS) snapshots of the same volume/snapshot lineage	Read	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListSnapshotBlocks</a>		Read	<a href="#">snapshot*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to list the blocks in an Amazon Elastic Block Store (EBS) snapshot			<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutSnapshotBlock</a>	Grants permission to write a block of data to a snapshot created by the StartSnapshot operation	Write	<a href="#">snapshot*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartSnapshot</a>	Grants permission to create a new EBS snapshot	Write	<a href="#">snapshot</a>		ec2:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ebs:Description</a> <a href="#">ebs:ParentSnapshot</a> <a href="#">ebs:VolumeSize</a>	

## Resource types defined by Amazon Elastic Block Store

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">snapshot</a>	arn:\${Partition}:ec2:\${Region}::snapshot/\${SnapshotId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ebs:Description</a> <a href="#">ebs:ParentSnapshot</a> <a href="#">ebs:VolumeSize</a>

## Condition keys for Amazon Elastic Block Store

Amazon Elastic Block Store defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">ebs:Description</a>	Filters access by the description of the snapshot being created	String
<a href="#">ebs:ParentSnapshot</a>	Filters access by the ARN of the parent snapshot	ARN
<a href="#">ebs:VolumeSize</a>	Filters access by the size of the volume for the snapshot being created, in GiB	Numeric

## Actions, resources, and condition keys for Amazon Elastic Container Registry

Amazon Elastic Container Registry (service prefix: `ecr`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic Container Registry](#)
- [Resource types defined by Amazon Elastic Container Registry](#)
- [Condition keys for Amazon Elastic Container Registry](#)

## Actions defined by Amazon Elastic Container Registry


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCheckLayerAvailability</a>	Grants permission to check the availability of multiple image layers in a specified registry and repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchDeleteImage</a>	Grants permission to delete a list of specified images within a specified repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchGetImage</a>	Grants permission to get detailed information for specified images within a specified repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchGetRepositoryScanningConfiguration</a>	Grants permission to retrieve repository scanning configuration for a list of repositories	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">BatchImportUpstreamImage</a> [permission only]	Grants permission to retrieve the image from the upstream registry and import it to your private registry	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">CompleteLayerUpload</a>	Grants permission to inform Amazon ECR that the image layer upload for a specified registry, repository name, and upload ID, has completed	Write	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePullThroughCacheRule</a>	Grants permission to create new pull-through cache rule	Write			iam:CreateServiceLinkedRole
<a href="#">CreateRepository</a>	Grants permission to create an image repository	Write	<a href="#">repository*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ecr:TagResource
<a href="#">CreateRepositoryCreationTemplate</a>	Grants permission to create the repository creation template	Write			ecr:CreateRepository ecr:PutLifecyclePolicy ecr:SetRepositoryPolicy iam:CreateServiceLinkedRole iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLifecyclePolicy</a>	Grants permission to delete the specified lifecycle policy	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DeletePullThroughCacheRule</a>	Grants permission to delete the pull-through cache rule	Write			
<a href="#">DeleteRegistryPolicy</a>	Grants permission to delete the registry policy	Permissions management			
<a href="#">DeleteRepository</a>	Grants permission to delete an existing image repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DeleteRepositoryCreationTemplate</a>	Grants permission to delete the repository creation template	Write			
<a href="#">DeleteRepositoryPolicy</a>	Grants permission to delete the repository policy from a specified repository	Permissions management	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DeleteSigningConfiguration</a>	Grants permission to delete the signing configuration for the registry	Write			
<a href="#">DeregisterPullTimeUpdateExclusion</a>	Grants permission to deregister a pull time update exclusion	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImageReplicationStatus</a>	Grants permission to retrieve replication status about an image in a registry, including failure reason if replication fails	Read	<a href="#">repository*</a>		
<a href="#">DescribeImageScanFindings</a>	Grants permission to describe the image scan findings for the specified image	Read	<a href="#">repository*</a>		
<a href="#">DescribeImageSigningStatus</a>	Grants permission to retrieve signing status about an image in a specified registry	Read	<a href="#">repository*</a>		
<a href="#">DescribeImages</a>	Grants permission to get metadata about the images in a repository, including image size, image tags, and creation date	List	<a href="#">repository*</a>		
<a href="#">DescribePullThroughCacheRules</a>	Grants permission to describe the pull-through cache rules	List			
<a href="#">DescribeRegistry</a>	Grants permission to describe the registry settings	Read			
<a href="#">DescribeRepositories</a>	Grants permission to describe image repositories in a registry	Read	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRepositoryCreationTemplates</a>	Grants permission to describe the repository creation template	Read			
<a href="#">GetAccountSetting</a>	Grants permission to retrieve account settings	Read		<a href="#">ecr:AccountSetting</a>	
<a href="#">GetAuthorizationToken</a>	Grants permission to retrieve a token that is valid for a specified registry for 12 hours	Read			
<a href="#">GetDownloadUrlForLayer</a>	Grants permission to retrieve the download URL corresponding to an image layer	Read	<a href="#">repository*</a>		
<a href="#">GetImageCopyStatus</a> [permission only]	Grants permission to retrieve the status about an image copy	Read	<a href="#">repository*</a>		
<a href="#">GetLifecyclePolicy</a>	Grants permission to retrieve the specified lifecycle policy	Read	<a href="#">repository*</a>		
<a href="#">GetLifecyclePolicyPreview</a>	Grants permission to retrieve the results of the specified lifecycle policy preview request	Read	<a href="#">repository*</a>		
<a href="#">GetRegistryPolicy</a>	Grants permission to retrieve the registry policy	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRegistryScanningConfiguration</a>	Grants permission to retrieve registry scanning configuration	Read			
<a href="#">GetRepositoryPolicy</a>	Grants permission to retrieve the repository policy for a specified repository	Read	<a href="#">repository*</a>		
<a href="#">GetSigningConfiguration</a>	Grants permission to retrieve the signing configuration for the registry	Read			
<a href="#">InitiateLayerUpload</a>	Grants permission to notify Amazon ECR that you intend to upload an image layer	Write	<a href="#">repository*</a>		
<a href="#">ListImages</a>	Grants permission to list all the image IDs for a given repository	List	<a href="#">repository*</a>		
<a href="#">ListPullTimeUpdateExclusions</a>	Grants permission to list pull time update exclusions for the registry	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an Amazon ECR resource	Read	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PutAccountSetting</a>	Grants permission to update account settings	Write		<a href="#">ecr:AccountSetting</a>	
<a href="#">PutImage</a>	Grants permission to create or update the image manifest associated with an image	Write	<a href="#">repository*</a>		
<a href="#">PutImageScanningConfiguration</a>	Grants permission to update the image scanning configuration for a repository	Write	<a href="#">repository*</a>		
<a href="#">PutImageTagMutability</a>	Grants permission to update the image tag mutability settings for a repository	Write	<a href="#">repository*</a>		
<a href="#">PutLifecyclePolicy</a>	Grants permission to create or update a lifecycle policy	Write	<a href="#">repository*</a>		
<a href="#">PutRegistryPolicy</a>	Grants permission to update the registry policy	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutRegistryScanningConfiguration</a>	Grants permission to update registry scanning configuration	Write			
<a href="#">PutReplicationConfiguration</a>	Grants permission to update the replication configuration for the registry	Write			iam:CreateServiceLinkedRole
<a href="#">PutSigningConfiguration</a>	Grants permission to update the signing configuration for the registry	Write			
<a href="#">RegisterPullTimeUpdateExclusion</a>	Grants permission to register a pull time update exclusion	Write			
<a href="#">ReplicateImage</a> [permission only]	Grants permission to replicate images to the destination registry	Write	<a href="#">repository*</a>		
<a href="#">SetRepositoryPolicy</a>	Grants permission to apply a repository policy on a specified repository to control access permissions	Permissions management	<a href="#">repository*</a>		
<a href="#">StartImageScan</a>	Grants permission to start an image scan	Write	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartLifecyclePolicyPreview</a>	Grants permission to start a preview of the specified lifecycle policy	Write	<a href="#">repository*</a>		
<a href="#">TagResource</a>	Grants permission to tag an Amazon ECR resource	Tagging	<a href="#">repository*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Amazon ECR resource	Tagging	<a href="#">repository*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateImageStorageClass</a>	Grants permission to get update the storage class of a specified image within a specified repository	Write	<a href="#">repository*</a>		
<a href="#">UpdatePullThroughCacheRule</a>	Grants permission to update the pull-through cache rule	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRepositoryCreationTemplate</a>	Grants permission to update the repository creation template	Write			ecr:CreateRepository ecr:PutLifecyclePolicy ecr:SetRepositoryPolicy iam:CreateServiceLinkedRole iam:PassRole
<a href="#">UploadLayerPart</a>	Grants permission to upload an image layer part to Amazon ECR	Write	<a href="#">repository*</a>		
<a href="#">ValidatePullThroughCacheRule</a>	Grants permission to validate the pull-through cache rule	Read			

## Resource types defined by Amazon Elastic Container Registry

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">repository</a>	arn:\${Partition}:ecr:\${Region}:\${Account}:repository/\${RepositoryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecr:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Elastic Container Registry

Amazon Elastic Container Registry defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString
<a href="#">ecr:AccountSetting</a>	Filters access by the ECR account setting name	String



Condition keys	Description	Type
<a href="#">ecr:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String

## Actions, resources, and condition keys for Amazon Elastic Container Registry Public

Amazon Elastic Container Registry Public (service prefix: `ecr-public`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic Container Registry Public](#)
- [Resource types defined by Amazon Elastic Container Registry Public](#)
- [Condition keys for Amazon Elastic Container Registry Public](#)

## Actions defined by Amazon Elastic Container Registry Public

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCheckLayerAvailability</a>	Grants permission to check the availability of multiple image layers in a specified registry and repository	Read	<a href="#">repository*</a>		
<a href="#">BatchDeleteImage</a>	Grants permission to delete a list of specified images within a specified repository	Write	<a href="#">repository*</a>		
<a href="#">CompleteLayerUpload</a>	Grants permission to inform Amazon ECR that the image layer upload for a specified registry, repository name, and upload ID, has completed	Write	<a href="#">repository*</a>		
<a href="#">CreateRepository</a>	Grants permission to create an image repository	Write	<a href="#">repository*</a>		ecr-public:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteRepository</a>	Grants permission to delete an existing image repository	Write	<a href="#">repository*</a>		
<a href="#">DeleteRepositoryPolicy</a>	Grants permission to delete the repository policy from a specified repository	Write	<a href="#">repository*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImageTags</a>	Grants permission to describe all the image tags for a given repository	List	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DescribeImages</a>	Grants permission to get metadata about the images in a repository, including image size, image tags, and creation date	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">DescribeRegistries</a>	Grants permission to retrieve the catalog data associated with a registry	List	<a href="#">registry*</a>		
<a href="#">DescribeRepositories</a>	Grants permission to describe image repositories in a registry	List	<a href="#">repository</a> <a href="#">y</a>		
<a href="#">GetAuthorizationToken</a>	Grants permission to retrieve a token that is valid for a specified registry for 12 hours	Read			
<a href="#">GetRegistryCatalogData</a>	Grants permission to retrieve the catalog data associated with a registry	Read	<a href="#">registry*</a>		
<a href="#">GetRepositoryCatalogData</a>	Grants permission to retrieve the catalog data associated with a repository	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">GetRepositoryPolicy</a>	Grants permission to retrieve the repository policy for a specified repository	Read	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InitiateLayerUpload</a>	Grants permission to notify Amazon ECR that you intend to upload an image layer	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an Amazon ECR resource	Read	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">PutImage</a>	Grants permission to create or update the image manifest associated with an image	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">PutRegistryCatalogData</a>	Grants permission to create and update the catalog data associated with a registry	Write	<a href="#">registry*</a>		
<a href="#">PutRepositoryCatalogData</a>	Grants permission to update the catalog data associated with a repository	Write	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">SetRepositoryPolicy</a>	Grants permission to apply a repository policy on a specified repository to control access permissions	Permissions management	<a href="#">repository</a> <a href="#">y*</a>		
<a href="#">TagResource</a>	Grants permission to tag an Amazon ECR resource	Tagging	<a href="#">repository</a> <a href="#">y*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Amazon ECR resource	Tagging	<a href="#">repository*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UploadLayerPart</a>	Grants permission to upload an image layer part to Amazon ECR Public	Write	<a href="#">repository*</a>		

## Resource types defined by Amazon Elastic Container Registry Public

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">repository</a>	arn:\${Partition}:ecr-public::\${Account}:repository/\${RepositoryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">ecr-public:ResourceTag/\${TagKey}</a>
<a href="#">registry</a>	arn:\${Partition}:ecr-public::\${Account}:registry/\${RegistryId}	

## Condition keys for Amazon Elastic Container Registry Public

Amazon Elastic Container Registry Public defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters create requests based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters create requests based on the presence of mandatory tags in the request	ArrayOfString
<a href="#">ecr-public:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String

## Actions, resources, and condition keys for Amazon Elastic Container Service

Amazon Elastic Container Service (service prefix: `ecs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic Container Service](#)
- [Resource types defined by Amazon Elastic Container Service](#)
- [Condition keys for Amazon Elastic Container Service](#)

### Actions defined by Amazon Elastic Container Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern



for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCapacityProvider</a>	Grants permission to create a new capacity provider. Capacity providers are associated with an Amazon ECS cluster and are used in capacity provider strategies to facilitate cluster auto scaling	Write	<a href="#">capacity-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ecs:propagate-tags</a>	
				<a href="#">ecs:instance-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">meta-data-tags-propagation</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCluster</a>	Grants permission to create a new Amazon ECS cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ecs:capacity-provider</a> <a href="#">ecs:fargate-ephemeral-storage-kms-key</a>	
<a href="#">CreateExpressGatewayService</a>	Grants permission to create a new Amazon ECS Express Gateway service with cluster and task definition	Write	<a href="#">service*</a>	<a href="#">ecs:cluster</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	ecs:RegisterTaskDefinition iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ecs:task-definition</a> <a href="#">ecs:subnet</a> <a href="#">ecs:enable-ecs-managed-tags</a> <a href="#">ecs:propagate-tags</a> <a href="#">ecs:task-cpu</a> <a href="#">ecs:task-memory</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateService</a>	Grants permission to run and maintain a desired number of tasks from a specified task definition via service creation	Write	<a href="#">service*</a>	<a href="#">ecs:cluster</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ecs:capacity-provider</a> <a href="#">ecs:task-definition</a> <a href="#">ecs:enable-ebs-volumes</a> <a href="#">ecs:enable-execute-command</a> <a href="#">ecs:enable-service-connect</a> <a href="#">ecs:namespace</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ecs:enable-vpc-lattice</a> <a href="#">ecs:enable-ecs-managed-tags</a> <a href="#">ecs:propagate-tags</a> <a href="#">ecs:auto-assign-public-ip</a> <a href="#">ecs:subnet</a> <a href="#">ecs:task-cpu</a> <a href="#">ecs:task-memory</a>	
<a href="#">CreateTaskSet</a>	Grants permission to create a new Amazon ECS task set	Write	<a href="#">task-set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ecs:cluster</a> <a href="#">ecs:capacity-provider</a> <a href="#">ecs:service</a> <a href="#">ecs:task-definition</a>	
<a href="#">DeleteAccountSetting</a>	<p>Grants permission to modify the ARN and resource ID format of a resource for a specified IAM user, IAM role, or the root user for an account. You can specify whether the new ARN and resource ID format are disabled for new resources that are created</p>	Write		<a href="#">ecs:account-setting</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAttributes</a>	Grants permission to delete one or more custom attributes from an Amazon ECS resource	Write	<a href="#">container-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	
<a href="#">DeleteCapacityProvider</a>	Grants permission to delete the specified capacity provider	Write	<a href="#">capacity-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteCluster</a>	Grants permission to delete the specified cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteExpressGatewayService</a>	Grants permission to delete a specified Express Gateway service	Write	<a href="#">service*</a>	<a href="#">ecs:cluster</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteService</a>	Grants permission to delete a specified service within a cluster	Write	<a href="#">service*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ecs:cluster</a>	
<a href="#">DeleteTaskDefinitions</a>	Grants permission to delete the specified task definitions by family and revision	Write	<a href="#">task-definition*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTaskSet</a>	Grants permission to delete the specified task set	Write	<a href="#">task-set*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ecs:cluster</a>	
				<a href="#">ecs:service</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterContainerInstance</a>	Grants permission to deregister an Amazon ECS container instance from the specified cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeregisterTaskDefinition</a>	Grants permission to deregister the specified task definition by family and revision	Write			
<a href="#">DescribeCapacityProviders</a>	Grants permission to describe one or more Amazon ECS capacity providers	Read	<a href="#">capacity-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeClusters</a>	Grants permission to describes one or more of your clusters	Read	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeContainerInstances</a>	Grants permission to describes Amazon ECS container instances	Read	<a href="#">container-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeExpressGatewayService</a>	Grants permission to describe the specified Express Gateway service	Read	<a href="#">service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	
<a href="#">DescribeServiceDeployments</a>	Grants permission to describe one or more of your service deployments	Read	<a href="#">service*</a>  <a href="#">service-deployment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:cluster</a>  <a href="#">ecs:service</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeServiceRevisions</a>	Grants permission to describe one or more of your service revisions	Read	<a href="#">service*</a>	<a href="#">ecs:cluster</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">service-revision*</a>	<a href="#">ecs:cluster</a>  <a href="#">ecs:service</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeServices</a>	Grants permission to describe the specified services running in your cluster	Read	<a href="#">service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:cluster</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTaskDefinition</a>	Grants permission to describe a task definition. You can specify a family and revision to find information about a specific task definition, or you can simply specify the family to find the latest ACTIVE revision in that family	Read			
<a href="#">DescribeTaskSets</a>	Grants permission to describe Amazon ECS task sets	Read	<a href="#">task-set*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a> <a href="#">ecs:service</a>	
<a href="#">DescribeTasks</a>	Grants permission to describe a specified task or tasks	Read	<a href="#">task*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DiscoverPollEndpoint</a>	Grants permission to get an endpoint for the Amazon ECS agent to poll for updates	Write			
<a href="#">ExecuteCommand</a>	Grants permission to run a command remotely on an Amazon ECS container	Write	<a href="#">cluster*</a>		
			<a href="#">task*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">ecs:cluster</a>	
<a href="#">GetTaskProtection</a>	Grants permission to retrieve the protection status of tasks in an Amazon ECS service	Read	<a href="#">task*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">ecs:cluster</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccountSettings</a>	Grants permission to list the account settings for an Amazon ECS resource for a specified principal	Read			
<a href="#">ListAttributes</a>	Grants permission to lists the attributes for Amazon ECS resources within a specified target type and cluster	List	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListClusters</a>	Grants permission to get a list of existing clusters	List			
<a href="#">ListContainerInstances</a>	Grants permission to get a list of container instances in a specified cluster	List	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListServiceDeployments</a>	Grants permission to get a list of service deployments for a specified service	List	<a href="#">service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	
<a href="#">ListServices</a>	Grants permission to get a list of services that are running in a specified cluster	List		<a href="#">ecs:cluster</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListServicesByNameSpace</a>	Grants permission to get a list of services that are running in a specified AWS Cloud Map Namespace	List		<a href="#">ecs:namespace</a>	
<a href="#">ListTagsForResource</a>	Grants permission to get a list of tags for the specified resource	Read	<a href="#">capacity-provider</a> <a href="#">cluster</a> <a href="#">container-instance</a> <a href="#">service</a> <a href="#">task</a> <a href="#">task-definition</a> <a href="#">task-set</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTaskDefinitionFamilies</a>	Grants permission to get a list of task definition families that are registered to your account (which may include task definition families that no longer have any ACTIVE task definitions)	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTaskDefinitions</a>	Grants permission to get a list of task definitions that are registered to your account	List			
<a href="#">ListTasks</a>	Grants permission to get a list of tasks for a specified cluster	List	<a href="#">container-instance</a> *		
<a href="#">Poll</a> [permission only]	Grants permission to an agent to connect with the Amazon ECS service to report status and get commands	Write	<a href="#">container-instance</a> *	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:cluster</a>	
				<a href="#">ecs:cluster</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccountSetting</a>	Grants permission to modify the ARN and resource ID format of a resource for a specified IAM user, IAM role, or the root user for an account. You can specify whether the new ARN and resource ID format are enabled for new resources that are created. Enabling this setting is required to use new Amazon ECS features such as resource tagging	Write		<a href="#">ecs:account-setting</a>	
<a href="#">PutAccountSettingDefault</a>	Grants permission to modify the ARN and resource ID format of a resource type for all IAM users on an account for which no individual account setting has been set. Enabling this setting is required to use new Amazon ECS features such as resource tagging	Write		<a href="#">ecs:account-setting</a>	
<a href="#">PutAttributes</a>	Grants permission to create or update an attribute on an Amazon ECS resource	Write	<a href="#">container-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	
<a href="#">PutClusterCapacityProviders</a>	Grants permission to modify the available capacity providers and the default capacity provider strategy for a cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:capacity-provider</a>	
<a href="#">PutSystemLogEvents</a>	Grants permission to collect system logs from the container instances	Write	<a href="#">cluster*</a>  <a href="#">container-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a> <a href="#">ecs:capacity-provider</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterContainerInstance</a>	Grants permission to register an EC2 instance into the specified cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">RegisterTaskDefinition</a>	Grants permission to register a new task definition from the supplied family and container Definitions	Write	<a href="#">task-definition*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ecs:compute-compatibility</a> <a href="#">ecs:privileged</a> <a href="#">ecs:task-cpu</a> <a href="#">ecs:task-memory</a>	
<a href="#">RunTask</a>	Grants permission to start a task using random placement and the default Amazon ECS scheduler	Write	<a href="#">task-definition*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ecs:cluster</a> <a href="#">ecs:capacity-provider</a> <a href="#">ecs:enable-ebs-volumes</a> <a href="#">ecs:enable-execute-command</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTask</a>	Grants permission to start a new task from the specified task definition on the specified container instance or instances	Write	<a href="#">task-definition*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">ecs:cluster</a>  <a href="#">ecs:container-instances</a>  <a href="#">ecs:enable-efs-volumes</a>  <a href="#">ecs:enable- execute-command</a>	iam:PassRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTelemetrySession</a>	Grants permission to start a telemetry session	Write	<a href="#">container-instance</a> * -	<a href="#">ecs:cluster</a>	
<a href="#">StopServiceDeployment</a>	Grants permission to stop an ongoing service deployment	Write	<a href="#">service*</a>	<a href="#">ecs:cluster</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">service-deployment</a> * -	<a href="#">ecs:cluster</a>  <a href="#">ecs:service</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopTask</a>	Grants permission to stop a running task	Write	<a href="#">task*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">ecs:cluster</a>	
<a href="#">SubmitAttachmentStateChanges</a>	Grants permission to send an acknowledgement that attachments changed states	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">SubmitContainerStateChange</a>	Grants permission to send an acknowledgement that a container changed states	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">SubmitTaskStateChange</a>	Grants permission to send an acknowledgement that a task changed states	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag the specified resource	Tagging	<a href="#">capacity-provider</a>  <a href="#">cluster</a>  <a href="#">container-instance</a>  <a href="#">service</a>  <a href="#">task</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">task-definition</a>		
			<a href="#">task-set</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">ecs:CreateAction</a>	
<a href="#">UntagResource</a>	Grants permission to untag the specified resource	Tagging	<a href="#">capacity-provider</a>		
			<a href="#">cluster</a>		
			<a href="#">container-instance</a>		
			<a href="#">service</a>		
			<a href="#">task</a>		
			<a href="#">task-definition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">task-set</a>		
<a href="#">UpdateCapacityProvider</a>	Grants permission to update the specified capacity provider	Write	<a href="#">capacity-provider*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCluster</a>	Grants permission to modify the configuration or settings to use for a cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ecs:fargate-ephemeral-storage-kms-key</a>	
<a href="#">UpdateClusterSettings</a>	Grants permission to modify the settings to use for a cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateContainerAgent</a>	Grants permission to update the Amazon ECS container agent on a specified container instance	Write	<a href="#">container-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	
<a href="#">UpdateContainerInstancesState</a>	Grants permission to the user to modify the status of an Amazon ECS container instance	Write	<a href="#">container-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a>	
<a href="#">UpdateExpressGatewayService</a>	Grants permission to modify the parameters of an Express Gateway service	Write	<a href="#">service*</a>	<a href="#">ecs:cluster</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:subnet</a> <a href="#">ecs:enable-ecs-managed-tags</a> <a href="#">ecs:propagate-tags</a> <a href="#">ecs:task-cpu</a> <a href="#">ecs:task-memory</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateService</a>	Grants permission to modify the parameters of a service	Write	<a href="#">service*</a>	<a href="#">ecs:cluster</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ecs:capacity-provider</a> <a href="#">ecs:enable-ebs-volumes</a> <a href="#">ecs:enable-execute-command</a> <a href="#">ecs:enable-service-connect</a> <a href="#">ecs:namespace</a> <a href="#">ecs:task-definition</a> <a href="#">ecs:enable-vpc-lattice</a> <a href="#">ecs:enable-ecs-managed-tags</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ecs:propagate-tags</a>  <a href="#">ecs:auto-assign-public-ip</a>  <a href="#">ecs:subnet</a>  <a href="#">ecs:task-cpu</a>  <a href="#">ecs:task-memory</a>	
<a href="#">UpdateServicePrimaryTaskSet</a>	Grants permission to modify the primary task set used in a service	Write	<a href="#">service*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:cluster</a>	
<a href="#">UpdateTaskProtection</a>	Grants permission to modify the protection status of a task	Write	<a href="#">task*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:cluster</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTaskSet</a>	Grants permission to update the specified task set	Write	<a href="#">task-set*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:cluster</a>  <a href="#">ecs:service</a>	

## Resource types defined by Amazon Elastic Container Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:cluster/\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ecs:ResourceTag/\${TagKey}</a>
<a href="#">container-instance</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:container-instance/\${ClusterName}/\${ContainerInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">ecs:ResourceTag/\${TagKey}</a>
<a href="#">service</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:service/\${ClusterName}/\${ServiceName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:ResourceTag/\${TagKey}</a>
<a href="#">service-deployment</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:service-deployment/\${ClusterName}/\${ServiceName}/\${ServiceDeploymentId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a> <a href="#">ecs:service</a>
<a href="#">service-revision</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:service-revision/\${ClusterName}/\${ServiceName}/\${ServiceRevisionId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:cluster</a> <a href="#">ecs:service</a>
<a href="#">task</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:task/\${ClusterName}/\${TaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:ResourceTag/\${TagKey}</a>
<a href="#">task-definition</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:task-definition/\${TaskDefinitionFamilyName}:\${TaskDefinitionRevisionNumber}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">capacity-provider</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:capacity-provider/\${CapacityProviderName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:ResourceTag/\${TagKey}</a>
<a href="#">task-set</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:task-set/\${ClusterName}/\${ServiceName}/\${TaskSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ecs:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Elastic Container Service

Amazon Elastic Container Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">ecs:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">ecs:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">ecs:account-setting</a>	Filters access by the Amazon ECS account setting name	String
<a href="#">ecs:auto-assign-public-ip</a>	Filters access by the public IP assignment configuration of your Amazon ECS task or Amazon ECS service that uses awsvpc network mode	Bool
<a href="#">ecs:capacity-provider</a>	Filters access by the ARN of an Amazon ECS capacity provider	ArrayOfARN
<a href="#">ecs:cluster</a>	Filters access by the ARN of an Amazon ECS cluster	ARN
<a href="#">ecs:compute-compatibility</a>	Filters access by the required compatibilities field provided in the request	ArrayOfString
<a href="#">ecs:container-instances</a>	Filters access by the ARN of an Amazon ECS container instance	ARN
<a href="#">ecs:container-name</a>	Filters access by the name of an Amazon ECS container which is defined in the ECS task definition	String
<a href="#">ecs:enable-efs-volumes</a>	Filters access by the Amazon ECS managed Amazon EFS volume capability of your ECS task or service	String
<a href="#">ecs:enable-ecs-managed-tags</a>	Filters access by the enableECSManagedTags configuration of your Amazon ECS task or Amazon ECS service	Bool
<a href="#">ecs:enable-execute-command</a>	Filters access by the execute-command capability of your Amazon ECS task or Amazon ECS service	String

Condition keys	Description	Type
<a href="#">ecs:enable-service-connect</a>	Filters access by the enable field value in the Service Connect configuration	String
<a href="#">ecs:enable-vpc-lattice</a>	Filters access by the VPC lattice capability of your Amazon ECS service	String
<a href="#">ecs:fargate-ephemeral-storage-kms-key</a>	Filters access by the AWS KMS key id provided in the request	String
<a href="#">ecs:instance-metadata-tags-propagation</a>	Filters access by the instance metadata tags propagation setting of your Amazon ECS capacity provider	Bool
<a href="#">ecs:namespace</a>	Filters access by the ARN of AWS Cloud Map namespace which is defined in the Service Connect Configuration	ARN
<a href="#">ecs:privileged</a>	Filters access by the privileged field provided in the request	String
<a href="#">ecs:propagate-tags</a>	Filters access by the tag propagation configuration of your Amazon ECS task or Amazon ECS service	String
<a href="#">ecs:service</a>	Filters access by the ARN of an Amazon ECS service	ARN
<a href="#">ecs:subnet</a>	Filters access by the subnet configuration of your Amazon ECS task or Amazon ECS service that uses awsvpc network mode	ArrayOfString
<a href="#">ecs:task</a>	Filters access by the ARN of an Amazon ECS task	ARN
<a href="#">ecs:task-cpu</a>	Filters access by the task cpu, as an integer with 1024 = 1 vCPU, provided in the request	Numeric
<a href="#">ecs:task-definition</a>	Filters access by the ARN of an Amazon ECS task definition	ARN

Condition keys	Description	Type
<a href="#">ecs:task-memory</a>	Filters access by the task memory, as an integer representing MiB, provided in the request	Numeric

## Actions, resources, and condition keys for AWS Elastic Disaster Recovery

AWS Elastic Disaster Recovery (service prefix: `drs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elastic Disaster Recovery](#)
- [Resource types defined by AWS Elastic Disaster Recovery](#)
- [Condition keys for AWS Elastic Disaster Recovery](#)

## Actions defined by AWS Elastic Disaster Recovery


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateFailbackClientToRecoveryInstanceForDrs</a> [permission only]	Grants permission to get associate failback client to recovery instance	Write	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">AssociateSourceNetworkStack</a>	Grants permission to associate CloudFormation stack with source network	Write	<a href="#">SourceNetworkResource*</a>		cloudformation:DescribeStackResource  cloudformation:DescribeStacks  drs:GetLaunchConfiguration  ec2:CreateLaunchTemplateVersion  ec2:DescribeLaunchTemplateVersions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeLaunchTemplates ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs ec2:ModifyLaunchTemplate
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">BatchCreateVolumeSnapshotGroupForDisasters</a> [permission only]	Grants permission to batch create volume snapshot group	Write	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteSnapshotRequestForDrs</a> [permission only]	Grants permission to batch delete snapshot request	Write			
<a href="#">CreateConvertedSnapshotForDrs</a> [permission only]	Grants permission to create converted snapshot	Write	<a href="#">SourceServerResource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateExtendedSourceServer</a>	Grants permission to extend a source server	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	drs:DescribeSourceServers  drs:GetReplicationConfiguration

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLaunchConfigurationTemplate</a>	Grants permission to create launch configuration template	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRecoveryInstanceForDisasterRecovery</a> [permission only]	Grants permission to create recovery instance	Write	<a href="#">SourceServerResource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReplicationConfigurationTemplate</a>	Grants permission to create replication configuration template	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateSecurityGroup ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:GetEbsDefaultKmsKeyId ec2:GetEbsEncryptionByDefault kms:CreateGrant kms:DescribeKey
<a href="#">CreateSourceNetwork</a>	Grants permission to create a source network	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:DescribeInstances ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSourceServerForDrs</a> [permission only]	Grants permission to create a source server	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteJob</a>	Grants permission to delete a job	Write	<a href="#">JobResource*</a>		
<a href="#">DeleteLaunchAction</a>	Grants permission to delete a launch action	Write	<a href="#">LaunchConfigurationTemplateResource</a>  <a href="#">SourceServerResource</a>		
<a href="#">DeleteLaunchConfigurationTemplate</a>	Grants permission to delete launch configuration template	Write	<a href="#">LaunchConfigurationTemplateResource*</a>		
<a href="#">DeleteRecoveryInstance</a>	Grants permission to delete recovery instance	Write	<a href="#">RecoveryInstanceResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteReplicationConfigurationTemplate</a>	Grants permission to delete replication configuration template	Write	<a href="#">ReplicationConfigurationTemplateResource*</a>		
<a href="#">DeleteSourceNetwork</a>	Grants permission to delete source network	Write	<a href="#">SourceNetworkResource*</a>		
<a href="#">DeleteSourceServer</a>	Grants permission to delete source server	Write	<a href="#">SourceServerResource*</a>		
<a href="#">DescribeJobLogItems</a>	Grants permission to describe job log items	Read	<a href="#">JobResource*</a>		
<a href="#">DescribeJobs</a>	Grants permission to describe jobs	Read			
<a href="#">DescribeLaunchConfigurationTemplates</a>	Grants permission to describe launch configuration template	Read			
<a href="#">DescribeRecoveryInstances</a>	Grants permission to describe recovery instances	Read			drs:DescribeSourceServers  ec2:DescribeInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRecoverySnapshots</a>	Grants permission to describe recovery snapshots	Read	<a href="#">SourceServerResource*</a>		
<a href="#">DescribeReplicationConfigurationTemplates</a>	Grants permission to describe replication configuration template	Read			
<a href="#">DescribeReplicationServerAssociationsForDrs</a> [permission only]	Grants permission to describe replication server associations	Read			
<a href="#">DescribeSnapshotRequestsForDrs</a> [permission only]	Grants permission to describe snapshot requests	Read			
<a href="#">DescribeSourceNetworks</a>	Grants permission to describe source networks	Read			
<a href="#">DescribeSourceServers</a>	Grants permission to describe source servers	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisconnectRecoveryInstance</a>	Grants permission to disconnect recovery instance	Write	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">DisconnectSourceServer</a>	Grants permission to disconnect source server	Write	<a href="#">SourceServerResource*</a>		
<a href="#">ExportSourceNetworkCfnTemplate</a>	Grants permission to export CloudFormation template which contains source network resources	Write	<a href="#">SourceNetworkResource*</a>		s3:GetBucketLocation s3:GetObject s3:PutObject
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetAgentCommandForDrs</a> [permission only]	Grants permission to get agent command	Read	<a href="#">RecoveryInstanceResource*</a> <a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAgentConfirmedResumeInfoForDrs</a> [permission only]	Grants permission to get agent confirmed resume info	Read	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		
<a href="#">GetAgentInstallationAssetsForDrs</a> [permission only]	Grants permission to get agent installation assets	Read			
<a href="#">GetAgentReplicationInfoForDrs</a> [permission only]	Grants permission to get agent replication info	Read	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		
<a href="#">GetAgentRuntimeConfigurationForDrs</a> [permission only]	Grants permission to get agent runtime configuration	Read	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAgentSnapshotCreditsForDrs</a> [permission only]	Grants permission to get agent snapshot credits	Read	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">GetChannelCommandsForDrs</a> [permission only]	Grants permission to get channel commands	Read			
<a href="#">GetFailbackCommandForDrs</a> [permission only]	Grants permission to get failback command	Read	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">GetFailbackLaunchRequestedForDrs</a> [permission only]	Grants permission to get failback launch requested	Read	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">GetFailbackReplicationConfiguration</a>	Grants permission to get failback replication configuration	Read	<a href="#">RecoveryInstanceResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLaunchConfiguration</a>	Grants permission to get launch configuration	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetReplicationConfiguration</a>	Grants permission to get replication configuration	Read	<a href="#">SourceServerResource*</a>		
<a href="#">GetSuggestedFailbackClientDeviceMappingForDrs</a> [permission only]	Grants permission to get suggested failback client device mapping	Read	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">InitializeService</a>	Grants permission to initialize service	Write			iam:AddRoleToInstanceProfile  iam:CreateInstanceProfile  iam:CreateServiceLinkedRole  iam:GetInstanceProfile

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">IssueAgentCertificateForDrs</a> [permission only]	Grants permission to issue an agent certificate	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">ListExtensibleSourceServers</a>	Grants permission to list extensible source servers	Read			drs:DescribeSourceServers
<a href="#">ListLaunchActions</a>	Grants permission to list launch actions	Read	<a href="#">LaunchConfigurationTemplateResource</a>		
			<a href="#">SourceServerResource</a>		
<a href="#">ListStagingAccounts</a>	Grants permission to list staging accounts	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			
<a href="#">NotifyAgentAuthenticationForDrs</a> [permission only]	Grants permission to notify agent authentication	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">NotifyAgentConnectedForDrs</a> [permission only]	Grants permission to notify agent is connected	Write	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		
<a href="#">NotifyAgentDisconnectedForDrs</a> [permission only]	Grants permission to notify agent is disconnected	Write	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		
<a href="#">NotifyAgentReplicationProgressForDrs</a> [permission only]	Grants permission to notify agent replication progress	Write	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		
<a href="#">NotifyConsistencyAttainedForDrs</a> [permission only]	Grants permission to notify consistency attained	Write	<a href="#">RecoveryInstanceResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">NotifyReplicationServerAuthenticationForDrs</a> [permission only]	Grants permission to notify replication server authentication	Write	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">NotifyVolumeEventForDrs</a> [permission only]	Grants permission to notify replicator volume events	Write	<a href="#">SourceServerResource*</a>		
<a href="#">PutLaunchAction</a>	Grants permission to put a launch action	Write	<a href="#">LaunchConfigurationTemplateResource</a>		ssm:DescribeDocument
			<a href="#">SourceServerResource</a>		
<a href="#">RetryDataReplication</a>	Grants permission to retry data replication	Write	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReverseReplication</a>	Grants permission to reverse replication	Write	<a href="#">RecoveryInstanceResource*</a>		drs:DescribeReplicationConfigurationTemplates  drs:DescribeSourceServers  ec2:DescribeInstances
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">SendAgentLogsForDrs</a> [permission only]	Grants permission to send agent logs	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendAgentMetricsForDrs</a> [permission only]	Grants permission to send agent metrics	Write	<a href="#">RecoveryInstanceResource*</a>  <a href="#">SourceServerResource*</a>		
<a href="#">SendChannelCommandResultForDrs</a> [permission only]	Grants permission to send channel command result	Write			
<a href="#">SendClientLogsForDrs</a> [permission only]	Grants permission to send client logs	Write			
<a href="#">SendClientMetricsForDrs</a> [permission only]	Grants permission to send client metrics	Write			
<a href="#">SendVolumeStatsForDrs</a> [permission only]	Grants permission to send volume throughput statistics	Write	<a href="#">SourceServerResource*</a>		
<a href="#">StartFailbackLaunch</a>	Grants permission to start failback launch	Write	<a href="#">RecoveryInstanceResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartRecovery</a>	Grants permission to start recovery	Write	<a href="#">SourceServerResource*</a>		drs:CreateRecoveryInstanceForDrs  drs:ListTagsForResource  ec2:AttachVolume  ec2:AuthorizeSecurityGroupEgress  ec2:AuthorizeSecurityGroupIngress  ec2:CreateLaunchTemplate  ec2:CreateLaunchTemplateVersion  ec2:CreateSnapshot

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:CreateTags ec2:CreateVolume ec2:DeleteLaunchTemplateVersions ec2:DeleteSnapshot ec2:DeleteVolume ec2:DescribeAccountAttributes ec2:DescribeAvailabilityZones ec2:DescribeImages ec2:DescribeInstanceAttribute

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeInstances ec2:DescribeInstanceTypes ec2:DescribeInstances ec2:DescribeLaunchTemplateVersions ec2:DescribeLaunchTemplates ec2:DescribeSecurityGroups ec2:DescribeSnapshots ec2:DescribeSubnets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeVolumes ec2:DetachVolume ec2:ModifyInstanceAttribute ec2:ModifyLaunchTemplate ec2:RevokeSecurityGroupEgress ec2:RunInstances ec2:StartInstances ec2:StopInstances ec2:TerminateInstances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">StartReplication</a>	Grants permission to start replication	Write	<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartSourceNetworkRecovery</a>	Grants permission to start network recovery	Write	<a href="#">SourceNetworkResource*</a>		cloudformation:CreateStack  cloudformation:DescribeStackResource  cloudformation:DescribeStacks  cloudformation:UpdateStack  drs:GetLaunchConfiguration  ec2:CreateLaunchTemplateVersion  ec2:DescribeLaunchTemplateVersions  ec2:DescribeLaunch



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					Templates  ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcs  ec2:ModifyLaunchTemplate  s3:GetObject  s3:PutObject
	Grants permission to start network replication	Write	<a href="#">SourceNetworkResource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopFailback</a>	Grants permission to stop failback	Write	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">StopReplication</a>	Grants permission to stop replication	Write	<a href="#">SourceServerResource*</a>		
<a href="#">StopSourceNetworkReplication</a>	Grants permission to stop network replication	Write	<a href="#">SourceNetworkResource*</a>		
<a href="#">TagResource</a>	Grants permission to assign a resource tag	Tagging	<a href="#">JobResource</a>		
			<a href="#">LaunchConfigurationTemplateResource</a>		
			<a href="#">RecoveryInstanceResource</a>		
			<a href="#">ReplicationConfigurationTemplateResource</a>		
			<a href="#">SourceNetworkResource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">SourceServerResource</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">drs:CreateAction</a>	
<a href="#">TerminateRecoveryInstances</a>	Grants permission to terminate recovery instances	Write	<a href="#">RecoveryInstanceResource*</a>		<a href="#">drs:DescribeSourceServers</a> <a href="#">ec2:DeleteVolume</a> <a href="#">ec2:DescribeInstances</a> <a href="#">ec2:DescribeVolumes</a> <a href="#">ec2:TerminateInstances</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">JobResource</a>  <a href="#">LaunchConfigurationTemplateResource</a>  <a href="#">RecoveryInstanceResource</a>  <a href="#">ReplicationConfigurationTemplateResource</a>  <a href="#">SourceNetworkResource</a>  <a href="#">SourceServerResource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgentBacklogForDrs</a> [permission only]	Grants permission to update agent backlog	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">UpdateAgentConversionInfoForDrs</a> [permission only]	Grants permission to update agent conversion info	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">UpdateAgentReplicationInfoForDrs</a> [permission only]	Grants permission to update agent replication info	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAgentReplicationProcessStateForDrs</a> [permission only]	Grants permission to update agent replication process state	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">UpdateAgentSourcePropertiesForDrs</a> [permission only]	Grants permission to update agent source properties	Write	<a href="#">RecoveryInstanceResource*</a>		
			<a href="#">SourceServerResource*</a>		
<a href="#">UpdateFailbackClientDeviceMappingForDrs</a> [permission only]	Grants permission to update failback client device mapping	Write	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">UpdateFailbackClientLastSeenForDrs</a> [permission only]	Grants permission to update failback client last seen	Write	<a href="#">RecoveryInstanceResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFailbackReplicationConfiguration</a>	Grants permission to update failback replication configuration	Write	<a href="#">RecoveryInstanceResource*</a>		
<a href="#">UpdateLaunchConfiguration</a>	Grants permission to update launch configuration	Write	<a href="#">SourceServerResource*</a>		ec2:DescribeInstances
<a href="#">UpdateLaunchConfigurationTemplate</a>	Grants permission to update launch configuration	Write	<a href="#">LaunchConfigurationTemplateResource*</a>		
<a href="#">UpdateReplicationCertificateForDrs</a> [permission only]	Grants permission to update a replication certificate	Write	<a href="#">RecoveryInstanceResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateReplicationConfiguration</a>	Grants permission to update replication configuration	Write	<a href="#">SourceServerResource*</a>		ec2:CreateSecurityGroup ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:GetEbsDefaultKmsKeyId ec2:GetEbsEncryptionByDefault kms:CreateGrant kms:DescribeKey



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateReplicationConfigurationTemplate</a>	Grants permission to update replication configuration template	Write	<a href="#">ReplicationConfigurationTemplateResource*</a>		ec2:CreateSecurityGroup ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:GetEbsDefaultKmsKeyId ec2:GetEbsEncryptionByDefault kms:CreateGrant kms:DescribeKey

## Resource types defined by AWS Elastic Disaster Recovery

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">JobResource</a>	arn:\${Partition}:drs:\${Region}:\${Account}:job/\${JobID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RecoveryInstanceResource</a>	arn:\${Partition}:drs:\${Region}:\${Account}:recovery-instance/\${RecoveryInstanceID}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">drs:EC2InstanceARN</a>
<a href="#">ReplicationConfigurationTemplateResource</a>	arn:\${Partition}:drs:\${Region}:\${Account}:replication-configuration-template/\${ReplicationConfigurationTemplateID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">LaunchConfigurationTemplateResource</a>	arn:\${Partition}:drs:\${Region}:\${Account}:launch-configuration-template/\${LaunchConfigurationTemplateID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SourceServerResource</a>	arn:\${Partition}:drs:\${Region}:\${Account}:source-server/\${SourceServerID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SourceNetworkResource</a>	arn:\${Partition}:drs:\${Region}:\${Account}:source-network/\${SourceNetworkID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elastic Disaster Recovery

AWS Elastic Disaster Recovery defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions

under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">drs:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">drs:EC2InstanceARN</a>	Filters access by the EC2 instance the request originated from	ARN

## Actions, resources, and condition keys for Amazon Elastic File System

Amazon Elastic File System (service prefix: `elasticfilesystem`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic File System](#)
- [Resource types defined by Amazon Elastic File System](#)

- [Condition keys for Amazon Elastic File System](#)

## Actions defined by Amazon Elastic File System

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Backup</a> [permission only]	Grants permission to start a backup job for an existing file system	Write	<a href="#">file-syst em*</a>		
<a href="#">ClientMount</a> [permission only]	Grants permission to allow an NFS client read-access to a file system	Read	<a href="#">file-syst em*</a>	<a href="#">elasticfi lesystem: AccessPoi ntArn</a>	
<a href="#">ClientRootAccess</a> [permission only]	Grants permission to allow an NFS client root-access to a file system	Write	<a href="#">file-syst em*</a>	<a href="#">elasticfi lesystem: AccessedV iaMountTa rget</a>	
				<a href="#">elasticfi lesystem:</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">AccessPointArn</a>  <a href="#">elasticfilesystem:AccessedViaMountTarget</a>	
<a href="#">ClientWrite</a> [permission only]	Grants permission to allow an NFS client write-access to a file system	Write	<a href="#">file-system*</a>	<a href="#">elasticfilesystem:AccessPointArn</a>  <a href="#">elasticfilesystem:AccessedViaMountTarget</a>	
<a href="#">CreateAccessPoint</a>	Grants permission to create an access point for the specified file system	Write	<a href="#">file-system*</a>		elasticfilesystem:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateFileSystem</a>	Grants permission to create a new, empty file system	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">elasticfilesystem:Encrypted</a>	elasticfilesystem:TagResource
<a href="#">CreateMountTarget</a>	Grants permission to create a mount target for a file system	Write	<a href="#">file-system*</a>		
<a href="#">CreateReplicationConfiguration</a>	Grants permission to create a new replication configuration	Write	<a href="#">file-system*</a>		
<a href="#">CreateTags</a>	Grants permission to create or overwrite tags associated with a file system; deprecated, see TagResource	Tagging	<a href="#">file-system*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccessPoint</a>	Grants permission to delete the specified access point	Write	<a href="#">access-point*</a>		
<a href="#">DeleteFilesystem</a>	Grants permission to delete a file system, permanently severing access to its contents	Write	<a href="#">file-system*</a>		
<a href="#">DeleteFilesystemPolicy</a>	Grants permission to delete the resource-level policy for a file system	Permissions management	<a href="#">file-system*</a>		
<a href="#">DeleteMountTarget</a>	Grants permission to delete the specified mount target	Write	<a href="#">file-system*</a>		
<a href="#">DeleteReplicationConfiguration</a>	Grants permission to delete a replication configuration	Write	<a href="#">file-system*</a>		
<a href="#">DeleteTags</a>	Grants permission to delete the specified tags from a file system; deprecated, see <a href="#">UntagResource</a>	Tagging	<a href="#">file-system*</a>	<a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAccessPoints</a>	Grants permission to view the descriptions of Amazon EFS access points	List	<a href="#">access-point</a> <a href="#">file-system</a>		
<a href="#">DescribeAccountPreferences</a>	Grants permission to view the account preferences in effect for an account	List			
<a href="#">DescribeBackupPolicy</a>	Grants permission to view the BackupPolicy object for an Amazon EFS file system	Read	<a href="#">file-system*</a>		
<a href="#">DescribeFileSystemPolicy</a>	Grants permission to view the resource-level policy for an Amazon EFS file system	Read	<a href="#">file-system</a>		
<a href="#">DescribeFileSystems</a>	Grants permission to view the description of an Amazon EFS file system specified by file system CreationToken or FileSystemId; or to view the description of all file systems owned by the caller's AWS account in the AWS region of the endpoint that is being called	List	<a href="#">file-system</a>		
<a href="#">DescribeLifecycleConfiguration</a>	Grants permission to view the LifecycleConfiguration object for an Amazon EFS file system	Read	<a href="#">file-system*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMountTargetSecurityGroups</a>	Grants permission to view the security groups in effect for a mount target	Read	<a href="#">file-system*</a>		
<a href="#">DescribeMountTargets</a>	Grants permission to view the descriptions of all mount targets, or a specific mount target, for a file system	Read	<a href="#">file-system*</a>		
			<a href="#">access-point</a>		
<a href="#">DescribeReplicationConfigurations</a>	Grants permission to view the description of an Amazon EFS replication configuration specified by FileSystemId; or to view the description of all replication configurations owned by the caller's AWS account in the AWS region of the endpoint that is being called	List	<a href="#">file-system</a>		
<a href="#">DescribeTags</a>	Grants permission to view the tags associated with a file system	Read	<a href="#">file-system*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to view the tags associated with the specified Amazon EFS resource	Read	<a href="#">access-point</a>		
			<a href="#">file-system</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyMountTargetSecurityGroups</a>	Grants permission to modify the set of security groups in effect for a mount target	Write	<a href="#">file-system*</a>		
<a href="#">PutAccountPreferences</a>	Grants permission to set the account preferences of an account	Write			
<a href="#">PutBackupPolicy</a>	Grants permission to enable or disable automatic backups with AWS Backup by creating a new BackupPolicy object	Write	<a href="#">file-system*</a>		
<a href="#">PutFileSystemPolicy</a>	Grants permission to apply a resource-level policy that defines the actions allowed or denied from given actors for the specified file system	Permissions management	<a href="#">file-system*</a>		
<a href="#">PutLifecycleConfiguration</a>	Grants permission to enable lifecycle management by creating a new Lifecycle Configuration object	Write	<a href="#">file-system*</a>		
<a href="#">ReplicationRead</a> [permission only]	Grants permission to read file system data for replication	Read	<a href="#">file-system*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReplicateOnWrite</a> [permission only]	Grants permission to replicate data to a file system	Write	<a href="#">file-system*</a>		
<a href="#">Restore</a> [permission only]	Grants permission to start a restore job for a backup of a file system	Write	<a href="#">file-system*</a>		
<a href="#">TagResource</a>	Grants permission to create or overwrite tags associated with the specified Amazon EFS resource	Tagging	<a href="#">access-point</a>		
			<a href="#">file-system</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticfilesystem:CreateAction</a>	
<a href="#">UntagResource</a>	Grants permission to delete the specified tags from an Amazon EFS resource	Tagging	<a href="#">access-point</a>		
			<a href="#">file-system</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateFileSystem</a>	Grants permission to update the throughput mode or the amount of provisioned throughput of an existing file system	Write	<a href="#">file-system*</a>		
<a href="#">UpdateFileSystemProtection</a>	Grants permission to update the file system protection of an existing file system	Write	<a href="#">file-system*</a>		

## Resource types defined by Amazon Elastic File System

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">file-system</a>	arn:\${Partition}:elasticfilesystem:\${Region}:\${Account}:file-system/\${FileSystemId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">access-point</a>	arn:\${Partition}:elasticfilesystem:\${Region}:\${Account}:access-point/\${AccessPointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Elastic File System

Amazon Elastic File System defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">elasticfilesystem:AccessPointArn</a>	Filters access by the ARN of the access point used to mount the file system	ARN
<a href="#">elasticfilesystem:AccessedViaMountTarget</a>	Filters access by whether the file system is accessed via mount targets	Bool
<a href="#">elasticfilesystem:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">elasticfilesystem:Encrypted</a>	Filters access by whether users can create only encrypted or unencrypted file systems	Bool

# Actions, resources, and condition keys for Amazon Elastic Kubernetes Service

Amazon Elastic Kubernetes Service (service prefix: eks) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Elastic Kubernetes Service](#)
- [Resource types defined by Amazon Elastic Kubernetes Service](#)
- [Condition keys for Amazon Elastic Kubernetes Service](#)

## Actions defined by Amazon Elastic Kubernetes Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AccessKubernetesApi</a> [permission only]	Grants permission to view Kubernetes objects via AWS EKS console	Read	<a href="#">cluster*</a>		
<a href="#">AssociateAccessPolicy</a>	Grants permission to associate an Amazon EKS access policy to an Amazon EKS access entry	Write	<a href="#">access-entry*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">eks:policyArn</a> <a href="#">eks:namespaces</a> <a href="#">eks:accessScope</a>	
<a href="#">AssociateEncryptionConfig</a>	Grants permission to associate encryption configuration to a cluster	Write	<a href="#">cluster*</a>		
<a href="#">AssociateIdentityProviderConfig</a>	Grants permission to associate an identity provider configuration to a cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">eks:clientId</a> <a href="#">eks:issuerUrl</a>	
<a href="#">CreateAccessEntry</a>	Grants permission to create an Amazon EKS access entry	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">eks:principalArn</a> <a href="#">eks:kubernetesGroups</a> <a href="#">eks:username</a> <a href="#">eks:accessEntryType</a>	
<a href="#">CreateAddon</a>	Grants permission to create an Amazon EKS add-on	Write	<a href="#">cluster*</a> <a href="#">podidentityassociation</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCapability</a>	Grants permission to create a capability for an Amazon EKS cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create an Amazon EKS cluster	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">eks:bootstrapClusterCreatorAdminPermissions</a> <a href="#">eks:bootstrapSelfManagedAddons</a> <a href="#">eks:authenticationMode</a> <a href="#">eks:supportType</a> <a href="#">eks:computeConfigEnabled</a> <a href="#">eks:elasticLoadBalancingEnabled</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">eks:blockStorageEnabled</a>  <a href="#">eks:loggingType/\${type}</a>	
<a href="#">CreateEksAnywhereSubscription</a>	Grants permission to create an EKS Anywhere subscription	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateFargateProfile</a>	Grants permission to create an AWS Fargate profile	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateNodegroup</a>	Grants permission to create an Amazon EKS Nodegroup	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePodIdentityAssociation</a>	Grants permission to create an EKS Pod Identity association	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccessEntry</a>	Grants permission to delete an Amazon EKS access entry	Write	<a href="#">access-entry*</a>		
<a href="#">DeleteAddon</a>	Grants permission to delete an Amazon EKS add-on	Write	<a href="#">addon*</a> <a href="#">podidentityassociation</a>		
<a href="#">DeleteCapability</a>	Grants permission to delete a capability from an Amazon EKS cluster	Write	<a href="#">capability*</a>		
<a href="#">DeleteCluster</a>	Grants permission to delete an Amazon EKS cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEksAnywhereSubscription</a>	Grants permission to describe an EKS Anywhere subscription	Write	<a href="#">eks-anywhere-subscription*</a>		
<a href="#">DeleteFargateProfile</a>	Grants permission to delete an AWS Fargate profile	Write	<a href="#">fargateprofile*</a>		
<a href="#">DeleteNodegroup</a>	Grants permission to delete an Amazon EKS Nodegroup	Write	<a href="#">nodegroup*</a>		
<a href="#">DeletePodIdentityAssociation</a>	Grants permission to delete an EKS Pod Identity association	Write	<a href="#">podidentityassociation*</a>		
<a href="#">DeregisterCluster</a>	Grants permission to deregister an External cluster	Write	<a href="#">cluster*</a>		
<a href="#">DescribeAccessEntry</a>	Grants permission to describe an Amazon EKS access entry	Read	<a href="#">access-entry*</a>		
<a href="#">DescribeAddon</a>	Grants permission to retrieve descriptive information about an Amazon EKS add-on	Read	<a href="#">addon*</a>		
<a href="#">DescribeAddonConfiguration</a>	Grants permission to list configuration options about an Amazon EKS add-on	Read			
<a href="#">DescribeAddonVersions</a>	Grants permission to retrieve descriptive version information about the add-ons that Amazon EKS Add-ons supports	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCapability</a>	Grants permission to describe a capability for an Amazon EKS cluster	Read	<a href="#">capability*</a>		
<a href="#">DescribeCluster</a>	Grants permission to retrieve descriptive information about an Amazon EKS cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeClusterVersions</a>	Grants permission to retrieve descriptive information about Kubernetes versions that Amazon EKS clusters support	Read			
<a href="#">DescribeEksAnywhereSubscription</a>	Grants permission to describe an EKS Anywhere subscription	Read	<a href="#">eks-anywhere-subscription*</a>		
<a href="#">DescribeFargateProfile</a>	Grants permission to retrieve descriptive information about an AWS Fargate profile associated with a cluster	Read	<a href="#">fargateprofile*</a>		
<a href="#">DescribeIdentityProviderConfig</a>	Grants permission to retrieve descriptive information about an Idp config associated with a cluster	Read	<a href="#">identityproviderconfig*</a>		
<a href="#">DescribeInsight</a>	Grants permission to retrieve descriptive information of a detected insight for a specified cluster	Read	<a href="#">cluster*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClusterInsightsRefresh</a>	Grants permission to retrieve the status of the latest on-demand cluster insights refresh operation	Read	<a href="#">cluster*</a>		
<a href="#">DescribeNodegroup</a>	Grants permission to retrieve descriptive information about an Amazon EKS nodegroup	Read	<a href="#">nodegroup*</a>		
<a href="#">DescribePodIdentityAssociation</a>	Grants permission to describe an EKS Pod Identity association	Read	<a href="#">podidentityassociation*</a>		
<a href="#">DescribeUpdate</a>	Grants permission to retrieve a given update for a given Amazon EKS cluster/nodegroup/add-on (in the specified or default region)	Read	<a href="#">cluster*</a>		
			<a href="#">addon</a>		
			<a href="#">capability</a>		
			<a href="#">nodegroup</a>		
<a href="#">DisassociateAccessPolicy</a>	Grants permission to disassociate an Amazon EKS access policy from an Amazon EKS access entry	Write	<a href="#">access-entry*</a>		
				<a href="#">eks:policyArn</a>	
				<a href="#">eks:namespaces</a>	
			<a href="#">eks:accessScope</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateIdentityProviderConfig</a>	Grants permission to delete an associated Idp config	Write	<a href="#">identityproviderconfig*</a>		
<a href="#">ListAccessEntries</a>	Grants permission to list all Amazon EKS access entries	List	<a href="#">cluster*</a>		
<a href="#">ListAccessPolicies</a>	Grants permission to list Amazon EKS access policies	List			
<a href="#">ListAddons</a>	Grants permission to list the Amazon EKS add-ons in your AWS account (in the specified or default region) for a given cluster	List	<a href="#">cluster*</a>		
<a href="#">ListAssociatedAccessPolicies</a>	Grants permission to list associated access policy on and Amazon EKS access entry	List	<a href="#">access-entry*</a>		
<a href="#">ListCapabilities</a>	Grants permission to list capabilities for an Amazon EKS cluster	List	<a href="#">cluster*</a>		
<a href="#">ListClusters</a>	Grants permission to list the Amazon EKS clusters in your AWS account (in the specified or default region)	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDashboardData</a>	Grants permission to list dashboard data. The Amazon EKS Dashboard aggregates information about cluster resources across multiple accounts and regions. The dashboard includes information about EC2 Instances and EKS Cluster versions	Read	<a href="#">dashboard*</a>		
<a href="#">ListDashboardResources</a>	Grants permission to list dashboard resources. The Amazon EKS Dashboard aggregates information about cluster resources across multiple accounts and regions. The dashboard includes information about EC2 Instances and EKS Cluster versions	Read	<a href="#">dashboard*</a>		
<a href="#">ListEksAnywhereSubscriptions</a>	Grants permission to list EKS Anywhere subscriptions	List			
<a href="#">ListFargateProfiles</a>	Grants permission to list the AWS Fargate profiles in your AWS account (in the specified or default region) associated with a given cluster	List	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIdentityProviderConfigs</a>	Grants permission to list the Idp configs in your AWS account (in the specified or default region) associated with a given cluster	List	<a href="#">cluster*</a>		
<a href="#">ListInsights</a>	Grants permission to list all detected insights for a specified cluster	List	<a href="#">cluster*</a>		
<a href="#">ListNodeGroups</a>	Grants permission to list the Amazon EKS nodegroups in your AWS account (in the specified or default region) attached to given cluster	List	<a href="#">cluster*</a>		
<a href="#">ListPodIdentityAssociations</a>	Grants permission to list EKS Pod Identity associations	List	<a href="#">cluster*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for the specified resource	Read	<a href="#">addon</a>		
			<a href="#">capability</a>		
			<a href="#">cluster</a>		
			<a href="#">dashboard</a>		
			<a href="#">eks-anywhere-subscription</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fargateprofile</a>		
			<a href="#">identityproviderconfig</a>		
			<a href="#">nodegroup</a>		
<a href="#">ListUpdates</a>	Grants permission to list the updates for a given Amazon EKS cluster/nodegroup/addon (in the specified or default region)	List	<a href="#">cluster*</a>		
			<a href="#">addon</a>		
			<a href="#">capabilities</a>		
			<a href="#">nodegroup</a>		
<a href="#">MutateViaKubernetesApi</a> [permission only]	Grants permission to modify Kubernetes objects via AWS console	Write	<a href="#">cluster*</a>		eks:AccessKubernetesApi
<a href="#">RegisterCluster</a>	Grants permission to register an External cluster	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartInsightsRefresh</a>	Grants permission to initiate an on-demand refresh operation for cluster insights, getting the latest analysis outside of the standard refresh schedule	Write	<a href="#">cluster*</a>		
<a href="#">TagResource</a>	Grants permission to tag the specified resource	Tagging	<a href="#">access-entry</a>		
			<a href="#">addon</a>		
			<a href="#">capability</a>		
			<a href="#">cluster</a>		
			<a href="#">dashboard</a>		
			<a href="#">eks-anywhere-subscription</a>		
			<a href="#">fargateprofile</a>		
			<a href="#">identityproviderconfig</a>		
<a href="#">nodegroup</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">podidentityassociation</a>		
<a href="#">UntagResource</a>	Grants permission to untag the specified resource	Tagging	<a href="#">access-entriy</a> <a href="#">addon</a> <a href="#">capability</a> <a href="#">cluster</a> <a href="#">dashboard</a> <a href="#">eks-anywhere-subscription</a> <a href="#">fargateprofile</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">identityproviderconfig</a>		
			<a href="#">nodegroup</a>		
			<a href="#">podidentityassociation</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessEntry</a>	Grants permission to update an Amazon EKS access entry	Write	<a href="#">access-entry*</a>		
<a href="#">UpdateAddon</a>	Grants permission to update Amazon EKS add-on configurations, such as the VPC-CNI version	Write	<a href="#">addon*</a>		
			<a href="#">podidentityassociation</a>		
<a href="#">UpdateCapability</a>	Grants permission to update a capability for an Amazon EKS cluster	Write	<a href="#">capability*</a>		
<a href="#">UpdateClusterConfig</a>	Grants permission to update Amazon EKS cluster configurations (eg: API server endpoint access)	Write	<a href="#">cluster*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">eks:authenticationMode</a> <a href="#">eks:supportType</a> <a href="#">eks:computeConfigEnabled</a> <a href="#">eks:elasticLoadBalancingEnabled</a> <a href="#">eks:blockStorageEnabled</a> <a href="#">eks:loggingType/\${type}</a>	
<a href="#">UpdateClusterVersion</a>	Grants permission to update the Kubernetes version of an Amazon EKS cluster	Write	<a href="#">cluster*</a>		
<a href="#">UpdateEksAnywhereSubscription</a>	Grants permission to update an EKS Anywhere subscription	Write	<a href="#">eks-anywhere-subscription*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNodegroupConfig</a>	Grants permission to update Amazon EKS nodegroup configurations (eg: min/max/desired capacity or labels)	Write	<a href="#">nodegroup</a> *		
<a href="#">UpdateNodegroupVersion</a>	Grants permission to update the Kubernetes version of an Amazon EKS nodegroup	Write	<a href="#">nodegroup</a> *		
<a href="#">UpdatePodIdentityAssociation</a>	Grants permission to update an EKS Pod Identity association	Write	<a href="#">podidentityassociation</a> *		

## Resource types defined by Amazon Elastic Kubernetes Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:eks:\${Region}:\${Account}:cluster/\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">nodegroup</a>	arn:\${Partition}:eks:\${Region}:\${Account}:nodegroup/\${ClusterName}/\${NodegroupName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">addon</a>	arn:\${Partition}:eks:\${Region}:\${Account}:addon/\${ClusterName}/\${AddonName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">fargateprofile</a>	arn:\${Partition}:eks:\${Region}:\${Account}:fargateprofile/\${ClusterName}/\${FargateProfileName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">identityproviderconfig</a>	arn:\${Partition}:eks:\${Region}:\${Account}:identityproviderconfig/\${ClusterName}/\${IdentityProviderType}/\${IdentityProviderConfigName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">eks-anywhere-subscription</a>	arn:\${Partition}:eks:\${Region}:\${Account}:eks-anywhere-subscription/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">podidentityassociation</a>	arn:\${Partition}:eks:\${Region}:\${Account}:podidentityassociation/\${ClusterName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">access-entry</a>	arn:\${Partition}:eks:\${Region}:\${Account}:access-entry/\${ClusterName}/\${IamIdentityType}/\${IamIdentityAccountID}/\${IamIdentityName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">eks:accessEntryType</a> <a href="#">eks:clusterName</a> <a href="#">eks:kubernetesGroups</a> <a href="#">eks:principalArn</a> <a href="#">eks:username</a>

Resource types	ARN	Condition keys
<a href="#">access-policy</a>	arn:\${Partition}:eks::aws:cluster-access-policy/\${AccessPolicyName}	
<a href="#">dashboard</a>	arn:\${Partition}:eks:\${Region}:\${Account}:dashboard/\${DashboardName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">capability</a>	arn:\${Partition}:eks:\${Region}:\${Account}:capability/\${ClusterName}/\${CapabilityType}/\${CapabilityName}/\${UID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Elastic Kubernetes Service

Amazon Elastic Kubernetes Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a key that is present in the request the user makes to the EKS service	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names present in the request the user makes to the EKS service	ArrayOfString
<a href="#">eks:accessEntryType</a>	Filters access by the access entry type present in the access entry requests the user makes to the EKS service	String

Condition keys	Description	Type
<a href="#">eks:accessScope</a>	Filters access by the accessScope present in the associate / disassociate access policy requests the user makes to the EKS service	String
<a href="#">eks:authenticationMode</a>	Filters access by the authenticationMode present in the create / update cluster request	String
<a href="#">eks:blockStorageEnabled</a>	Filters access by the block storage enabled parameter in the create / update cluster request	Bool
<a href="#">eks:bootstrapClusterCreatorAdminPermissions</a>	Filters access by the bootstrapClusterCreatorAdminPermissions present in the create cluster request	Bool
<a href="#">eks:bootstrapSelfManagedAddons</a>	Filters access by the bootstrapSelfManagedAddons present in the create cluster request	Bool
<a href="#">eks:clientId</a>	Filters access by the clientId present in the associate IdentityProviderConfig request the user makes to the EKS service	String
<a href="#">eks:clusterName</a>	Filters access by the clusterName present in the access entry requests the user makes to the EKS service	String
<a href="#">eks:computeConfigEnabled</a>	Filters access by the compute config enabled parameter in the create / update cluster request	Bool
<a href="#">eks:elasticLoadBalancingEnabled</a>	Filters access by the elastic load balancing enabled parameter in the create / update cluster request	Bool
<a href="#">eks:issuerUrl</a>	Filters access by the issuerUrl present in the associate IdentityProviderConfig request the user makes to the EKS service	String

Condition keys	Description	Type
<a href="#">eks:kubernetesGroups</a>	Filters access by the kubernetesGroups present in the access entry requests the user makes to the EKS service	ArrayOfString
<a href="#">eks:loggingType/\${type}</a>	Filters access by the cluster logging enabled and type parameter in the create / update cluster request	Bool
<a href="#">eks:namespaces</a>	Filters access by the namespaces present in the associate / disassociate access policy requests the user makes to the EKS service	ArrayOfString
<a href="#">eks:policyArn</a>	Filters access by the policyArn present in the access entry requests the user makes to the EKS service	ARN
<a href="#">eks:principalArn</a>	Filters access by the principalArn present in the access entry requests requests the user makes to the EKS service	ARN
<a href="#">eks:supportType</a>	Filters access by the supportType present in the create / update cluster request	String
<a href="#">eks:username</a>	Filters access by the Kubernetes username present in the access entry requests the user makes to the EKS service	String

## Actions, resources, and condition keys for AWS Elastic Load Balancing

AWS Elastic Load Balancing (service prefix: elasticloadbalancing) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elastic Load Balancing](#)

- [Resource types defined by AWS Elastic Load Balancing](#)
- [Condition keys for AWS Elastic Load Balancing](#)

## Actions defined by AWS Elastic Load Balancing

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTags</a>	Grants permission to add the specified tags to the specified load balancer. Each load balancer can have a maximum of 10 tags	Tagging	<a href="#">loadbalancer*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticloadbalancing:CreateAction</a>	
<a href="#">ApplySecurityGroupsToLoadBalancer</a>	Grants permission to associate one or more security groups with your load balancer in a virtual private cloud (VPC)	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:SecurityGroup</a>	
<a href="#">AttachLoadBalancerToSubnets</a>	Grants permission to add one or more subnets to the set of configured subnets for the specified load balancer	Write	<a href="#">loadbalancer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:Subnet</a>	
<a href="#">Configure HealthCheck</a>	Grants permission to specify the health check settings to use when evaluating the health state of your back-end instances	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAppCookieStickinessPolicy</a>	Grants permission to generate a stickiness policy with sticky session lifetimes that follow that of an application-generated cookie	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CreateLoadBalancerCookieStickinessPolicy</a>	Grants permission to generate a stickiness policy with sticky session lifetimes controlled by the lifetime of the browser (user-agent) or a specified expiration period	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLoadBalancer</a>	Grants permission to create a load balancer	Write	<a href="#">loadbalancer</a>		elasticloadbalancing:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">elasticloadbalancing:ResourceTag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">elasticloadbalancing:SecurityGroup</a>	
				<a href="#">elasticloadbalancing:Subnet</a>	
				<a href="#">elasticloadbalancing:Scheme</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticloadbalancing:ListenerProtocol</a>	
<a href="#">CreateLoadBalancerListeners</a>	Grants permission to create one or more listeners for the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ListenerProtocol</a>	
<a href="#">CreateLoadBalancerPolicy</a>	Grants permission to create a policy with the specified attributes for the specified load balancer	Write	<a href="#">loadbalancer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:SecurityPolicy</a>	
<a href="#">DeleteLoadBalancer</a>	Grants permission to delete the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLoadBalancerListeners</a>	Grants permission to delete the specified listeners from the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLoadBalancerPolicy</a>	Grants permission to delete the specified policy from the specified load balancer. This policy must not be enabled for any listeners	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterInstanceFromLoadBalancer</a>	Grants permission to deregister the specified instances from the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeInstanceHealth</a>	Grants permission to describe the state of the specified instances with respect to the specified load balancer	Read			
<a href="#">DescribeLoadBalancerAttributes</a>	Grants permission to describe the attributes for the specified load balancer	Read			
<a href="#">DescribeLoadBalancerPolicies</a>	Grants permission to describe the specified policies	Read			
<a href="#">DescribeLoadBalancerPolicyTypes</a>	Grants permission to describe the specified load balancer policy types	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLoadBalancers</a>	Grants permission to describe the specified the load balancers. If no load balancers are specified, the call describes all of your load balancers	List			
<a href="#">DescribeTags</a>	Grants permission to describe the tags associated with the specified load balancers	Read			
<a href="#">DetachLoadBalancerFromSubnets</a>	Grants permission to remove the specified subnets from the set of configured subnets for the load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableAvailabilityZonesForLoadBalancer</a>	Grants permission to remove the specified Availability Zones from the set of Availability Zones for the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">EnableAvailabilityZonesForLoadBalancer</a>	Grants permission to add the specified Availability Zones to the set of Availability Zones for the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyLoadBalancerAttributes</a>	Grants permission to modify the attributes of the specified load balancer	Write	<a href="#">loadbalancer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">RegisterInstancesWithLoadBalancer</a>	Grants permission to add the specified instances to the specified load balancer	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">RemoveTags</a>	Grants permission to remove one or more tags from the specified load balancer	Tagging	<a href="#">loadbalancer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">SetLoadBalancerListenerSSLCertificate</a>	Grants permission to set the certificate that terminates the specified listener's SSL connections	Write	<a href="#">loadbalancer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">SetLoadBalancerPoliciesForBackendServer</a>	Grants permission to replace the set of policies associated with the specified port on which the back-end server is listening with a new set of policies	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetLoadBalancerPoliciesOfListener</a>	Grants permission to replace the current set of policies for the specified load balancer port with the specified set of policies	Write	<a href="#">loadbalancer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:SecurityPolicy</a>	

## Resource types defined by AWS Elastic Load Balancing

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">loadbalancer</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/\${LoadBalancerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elastic Load Balancing

AWS Elastic Load Balancing defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">elasticloadbalancing:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">elasticloadbalancing:</a>	Filters access by the listener protocols that are allowed in the request	ArrayOfString



Condition keys	Description	Type
<a href="#">ng:ListenerProtocol</a>		
<a href="#">elasticloadbalancing:ResourceTag/</a>	Filters access by the preface string for a tag key and value pair that are attached to a resource	String
<a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	Filters access by the preface string for a tag key and value pair that are attached to a resource	String
<a href="#">elasticloadbalancing:Scheme</a>	Filters access by the load balancer scheme that are allowed in the request	String
<a href="#">elasticloadbalancing:SecurityGroup</a>	Filters access by the security-group IDs that are allowed in the request	ArrayOfString
<a href="#">elasticloadbalancing:SecurityPolicy</a>	Filters access by the SSL Security Policies that are allowed in the request	ArrayOfString
<a href="#">elasticloadbalancing:Subnet</a>	Filters access by the subnet IDs that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elastic Load Balancing V2

AWS Elastic Load Balancing V2 (service prefix: `elasticloadbalancing`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elastic Load Balancing V2](#)
- [Resource types defined by AWS Elastic Load Balancing V2](#)
- [Condition keys for AWS Elastic Load Balancing V2](#)

## Actions defined by AWS Elastic Load Balancing V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddListenerCertificates</a>	Grants permission to add the specified certificates to the specified secure listener	Write	<a href="#">listener/app*</a>		
			<a href="#">listener/net*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">elasticloadbalancing:Resource</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ceTag/\${TagKey}</a>	
<a href="#">AddTags</a>	Grants permission to add the specified tags to the specified load balancer. Each load balancer can have a maximum of 10 tags	Tagging	<a href="#">listener-rule/app</a>		
			<a href="#">listener-rule/net</a>		
			<a href="#">listener/app</a>		
			<a href="#">listener/gwy</a>		
			<a href="#">listener/net</a>		
			<a href="#">loadbalancer/app/</a>		
			<a href="#">loadbalancer/gwy/</a>		
			<a href="#">loadbalancer/net/</a>		
			<a href="#">targetgroup</a>		
			<a href="#">truststore</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:CreateAction</a>	
<a href="#">AddTrustStoreRevocations</a>	Grants permission to add revocations to a trust store	Write	<a href="#">truststore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for load balancers	Permissions management		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CreateListener</a>	Grants permission to create a listener for the specified Application Load Balancer	Write	<a href="#">loadbalancer/app/</a>  <a href="#">loadbalancer/gwy/</a>  <a href="#">loadbalancer/net/</a>		elasticloadbalancing:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:SecurityPolicy</a>  <a href="#">elasticloadbalancing:Listener</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLoadBalancer</a>	Grants permission to create a load balancer	Write	<a href="#">loadbalancer/app/</a>		elasticloadbalancing:AddTags
			<a href="#">loadbalancer/gwy/</a>		
			<a href="#">loadbalancer/net/</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:SecurityGroup</a> <a href="#">elasticloadbalancing:Subnet</a> <a href="#">elasticloadbalancing:Scheme</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRule</a>	Grants permission to create a rule for the specified listener	Write	<a href="#">listener/app*</a>		elasticloadbalancing:AddTags
			<a href="#">listener/net*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CreateTargetGroup</a>	Grants permission to create a target group	Write	<a href="#">targetgroup*</a>		elasticloadbalancing:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CreateTrustStore</a>	Grants permission to create a trust store	Write	<a href="#">truststore</a>		elasticloadbalancing:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">CreateWebACLAssociation</a> [permission only]	Grants permission to associate WAF WebACL to the specified load balancer	Write	<a href="#">loadbalancer/app/*-</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteListener</a>	Grants permission to delete the specified listener	Write	<a href="#">listener/app*</a>  <a href="#">listener/gwy*</a>  <a href="#">listener/net*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLoadBalancer</a>	Grants permission to delete the specified load balancer	Write	<a href="#">loadbalancer/app/</a>		
			<a href="#">loadbalancer/gwy/</a>		
			<a href="#">loadbalancer/net/</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteRule</a>	Grants permission to delete the specified rule	Write	<a href="#">listener-rule/app*</a>		
			<a href="#">listener-rule/net*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSharedTrustStoreAssociation</a>	Grants permission to delete the specified shared trust store association	Write	<a href="#">truststore*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTargetGroup</a>	Grants permission to delete the specified target group	Write	<a href="#">targetgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTrustStore</a>	Grants permission to delete the specified trust store	Write	<a href="#">truststore*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteWebACLAssociation</a> [permission only]	Grants permission to disassociate WAF WebACL from the specified load balancer	Write	<a href="#">loadbalancer/app/*-</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DeregisterTargets</a>	Grants permission to deregister the specified targets from the specified target group	Write	<a href="#">targetgroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAccountLimits</a>	Grants permission to describe the Elastic Load Balancing resource limits for the AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCapacityReservation</a>	Grants permission to describe the capacity reservation for a load balancer	Read			
<a href="#">DescribeListenerAttributes</a>	Grants permission to describe the attributes for the specified listener	Read			
<a href="#">DescribeListenerCertificates</a>	Grants permission to describe the certificates for the specified secure listener	Read			
<a href="#">DescribeListeners</a>	Grants permission to describe the specified listeners or the listeners for the specified Application Load Balancer	Read			
<a href="#">DescribeLoadBalancerAttributes</a>	Grants permission to describe the attributes for the specified load balancer	Read			
<a href="#">DescribeLoadBalancers</a>	Grants permission to describe the specified the load balancers. If no load balancers are specified, the call describes all of your load balancers	List			
<a href="#">DescribeRules</a>	Grants permission to describe the specified rules or the rules for the specified listener	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSLPolicies</a>	Grants permission to describe the specified policies or all policies used for SSL negotiation	Read			
<a href="#">DescribeTags</a>	Grants permission to describe the tags associated with the specified resource	Read			
<a href="#">DescribeTargetGroupAttributes</a>	Grants permission to describe the attributes for the specified target group	Read			
<a href="#">DescribeTargetGroups</a>	Grants permission to describe the specified target groups or all of your target groups	Read			
<a href="#">DescribeTargetHealth</a>	Grants permission to describe the health of the specified targets or all of your targets	Read			
<a href="#">DescribeTrustStoreAssociations</a>	Grants permission to describe the associations with a trust store	Read			
<a href="#">DescribeTrustStoreRevocations</a>	Grants permission to describe the specified trust stores revocations or all of your revocations related to a trust store	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTrustStores</a>	Grants permission to describe the specified trust stores or all of your trust stores	Read			
<a href="#">DescribeWebACLAssociation</a> [permission only]	Grants permission to describe all load balancers associated to a WAF WebACL in your account	List			
<a href="#">GetLoadBalancerWebACL</a> [permission only]	Grants permission to retrieve the WAF WebACL associated to the specified load balancer	Read	<a href="#">loadbalancer/app/*-</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve the resource policy associated with the resource	Read	<a href="#">truststore</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">GetTrustStoreCertificateBundle</a>	Grants permission to retrieve a trust store CA certificates bundle	Read	<a href="#">truststore*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">GetTrustStoreRevocationContent</a>	Grants permission to retrieve a trust store revocation content	Read	<a href="#">truststore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">ModifyCapacityReservation</a>	Grants permission to modify the capacity reservation for a load balancer	Write	<a href="#">loadbalancer/app/</a>  <a href="#">loadbalancer/gwy/</a>  <a href="#">loadbalancer/net/</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	<a href="#">elastice-loadbalancing:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyIpPools</a>	Grants permission to modify the ip pools for a load balancer	Write	<a href="#">loadbalancer/app/</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyListener</a>	Grants permission to modify the specified properties of the specified listener	Write	<a href="#">listener/app*</a>  <a href="#">listener/gwy*</a>  <a href="#">listener/net*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:SecurityPolicy</a>  <a href="#">elasticloadbalancing:ListenerProtocol</a>	
<a href="#">ModifyListenerAttributes</a>	Grants permission to modify the attributes of the specified listener	Write	<a href="#">listener/app*</a>  <a href="#">listener/gwy*</a>  <a href="#">listener/net*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyLoadBalancerAttributes</a>	Grants permission to modify the attributes of the specified load balancer	Write	<a href="#">loadbalancer/app/</a>  <a href="#">loadbalancer/gwy/</a>  <a href="#">loadbalancer/net/</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyRule</a>	Grants permission to modify the specified rule	Write	<a href="#">listener-rule/app*</a>  <a href="#">listener-rule/net*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyTargetGroup</a>	Grants permission to modify the health checks used when evaluating the health state of the targets in the specified target group	Write	<a href="#">targetgroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyTargetGroupAttributes</a>	Grants permission to modify the specified attributes of the specified target group	Write	<a href="#">targetgroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyTrustStore</a>	Grants permission to modify the specified trust store	Write	<a href="#">truststore*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">RegisterTargets</a>	Grants permission to register the specified targets with the specified target group	Write	<a href="#">targetgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">RemoveListenerCertificates</a>	Grants permission to remove the specified certificates of the specified secure listener	Write	<a href="#">listener/app*</a>  <a href="#">listener/net*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">RemoveTags</a>	Grants permission to remove one or more tags from the specified load balancer	Tagging	<a href="#">listener-rule/app</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">listener-rule/net</a>		
			<a href="#">listener/app</a>		
			<a href="#">listener/gwy</a>		
			<a href="#">listener/net</a>		
			<a href="#">loadbalancer/app/</a>		
			<a href="#">loadbalancer/gwy/</a>		
			<a href="#">loadbalancer/net/</a>		
			<a href="#">targetgroup</a>		
			<a href="#">truststore</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">RemoveTrustStoreRevocations</a>	Grants permission to remove revocations from a trust store	Write	<a href="#">truststore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
<a href="#">SetIpAddressType</a>	Grants permission to set the type of IP addresses used by the subnets of the specified load balancer	Write	<a href="#">loadbalancer/app/</a>  <a href="#">loadbalancer/gwy/</a>  <a href="#">loadbalancer/net/</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetRulePriorities</a>	Grants permission to set the priorities of the specified rules	Write	<a href="#">listener-rule/app*</a>		
			<a href="#">listener-rule/net*</a>		
<a href="#">SetSecurityGroups</a>	Grants permission to associate the specified security groups with the specified load balancer	Write	<a href="#">loadbalancer/app/</a>		
			<a href="#">loadbalancer/net/</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>		
			<a href="#">elasticloadbalancing:SecurityGroup</a>		
<a href="#">SetSubnets</a>	Grants permission to enable the Availability Zone for the specified subnets for the specified load balancer	Write	<a href="#">loadbalancer/app/</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">loadbalancer/gwy/</a>		
			<a href="#">loadbalancer/net/</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	
				<a href="#">elasticloadbalancing:Subnet</a>	
<a href="#">SetWebAcl</a> [permission only]	Grants permission to give WebAcl permission to WAF	Write			

## Resource types defined by AWS Elastic Load Balancing V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">listener/gwy</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:listener/gwy/\${LoadBalancerName}/\${LoadBalancerId}/\${ListenerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">listener/app</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:listener/app/\${LoadBalancerName}/\${LoadBalancerId}/\${ListenerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">listener-rule/app</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:listener-rule/app/\${LoadBalancerName}/\${LoadBalancerId}/\${ListenerId}/\${ListenerRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">listener/net</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:listener/net/\${LoadBalancerName}/\${LoadBalancerId}/\${ListenerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">listener-rule/net</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:listener-rule/net/\${LoadBalancerName}/\${LoadBalancerId}/\${ListenerId}/\${ListenerRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">loadbalancer/gwy/</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/gwy/\${LoadBalancerName}/\${LoadBalancerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">loadbalancer/app/</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/app/\${LoadBalancerName}/\${LoadBalancerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">loadbalancer/net/</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/net/\${LoadBalancerName}/\${LoadBalancerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">targetgroup</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:targetgroup/\${TargetGroupName}/\${TargetGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>
<a href="#">truststore</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:truststore/\${TrustStoreName}/\${TrustStoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elastic Load Balancing V2

AWS Elastic Load Balancing V2 defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">elasticloadbalancing:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">elasticloadbalancing:ListenerProtocol</a>	Filters access by the listener protocol that is allowed in the request	String
<a href="#">elasticloadbalancing:ResourceTag/\${TagKey}</a>	Filters access by the preface string for a tag key and value pair that are attached to a resource	String
<a href="#">elasticloadbalancing:Scheme</a>	Filters access by the load balancer scheme that is allowed in the request	String

Condition keys	Description	Type
<a href="#">elasticloadbalancing:SecurityGroup</a>	Filters access by the security-group IDs that are allowed in the request	ArrayOfString
<a href="#">elasticloadbalancing:SecurityPolicy</a>	Filters access by the SSL Security Policies that are allowed in the request	ArrayOfString
<a href="#">elasticloadbalancing:Subnet</a>	Filters access by the subnet IDs that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Elastic MapReduce

Amazon Elastic MapReduce (service prefix: `elasticmapreduce`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic MapReduce](#)
- [Resource types defined by Amazon Elastic MapReduce](#)
- [Condition keys for Amazon Elastic MapReduce](#)

## Actions defined by Amazon Elastic MapReduce

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,


you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

**Note**

The DescribeJobFlows API is deprecated and will eventually be removed. We recommend you use ListClusters, DescribeCluster, ListSteps, ListInstanceGroups and ListBootstrapActions instead

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AccessAllEventLogs</a>	Grants permission to view all event logs in a persistent application history server	Write	<a href="#">cluster*</a>		
<a href="#">AddInstanceFleet</a>	Grants permission to add an instance fleet to a running cluster	Write	<a href="#">cluster*</a>		
<a href="#">AddInstanceGroups</a>	Grants permission to add instance groups to a running cluster	Write	<a href="#">cluster*</a>		
<a href="#">AddJobFlowSteps</a>	Grants permission to add new steps to a running cluster	Write	<a href="#">cluster*</a>	<a href="#">elasticmapreduce:ExecutionRoleArn</a>	
<a href="#">AddTags</a>	Grants permission to add tags to an Amazon EMR resource	Tagging	<a href="#">cluster</a> <a href="#">editor</a> <a href="#">notebook-execution</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">studio</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">elasticmapreduce:RequestTag/\${TagKey}</a>	
<a href="#">AttachEditor</a> [permission only]	Grants permission to attach an EMR notebook to a compute engine	Write	<a href="#">editor*</a>		
<a href="#">CancelSteps</a>	Grants permission to cancel a pending step or steps in a running cluster	Write	<a href="#">cluster*</a>		
<a href="#">CreateEditor</a> [permission only]	Grants permission to create an EMR notebook	Write	<a href="#">cluster</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">elasticmapreduce:RequestTag/</a> <a href="#">\${TagKey}</a>	
<a href="#">CreatePersistentAppUI</a>	Grants permission to create a persistent application history server	Write	<a href="#">cluster*</a>		
<a href="#">CreateRepository</a> [permission only]	Grants permission to create an EMR notebook repository	Write			
<a href="#">CreateSecurityConfiguration</a>	Grants permission to create a security configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStudio</a>	Grants permission to create an EMR Studio	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticmapreduce:RequestTag/\${TagKey}</a>	
<a href="#">CreateStudioPresignedUrl</a>	Grants permission to launch an EMR Studio using IAM authentication mode	Write	<a href="#">studio*</a>		
<a href="#">CreateStudioSessionMapping</a>	Grants permission to create an EMR Studio session mapping	Write	<a href="#">studio*</a>		
<a href="#">DeleteEditor</a> [permission only]	Grants permission to delete an EMR notebook	Write	<a href="#">editor*</a>		
<a href="#">DeleteRepository</a> [permission only]	Grants permission to delete an EMR notebook repository	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSecurityConfiguration</a>	Grants permission to delete a security configuration	Write			
<a href="#">DeleteStudio</a>	Grants permission to delete an EMR Studio	Write	<a href="#">studio*</a>		
<a href="#">DeleteStudioSessionMapping</a>	Grants permission to delete an EMR Studio session mapping	Write	<a href="#">studio*</a>		
<a href="#">DeleteWorkspaceAccess</a> [permission only]	Grants permission to block an identity from opening a collaborative workspace	Permissions management	<a href="#">editor*</a>		
<a href="#">DescribeCluster</a>	Grants permission to get details about a cluster, including status, hardware and software configuration, VPC settings, and so on	Read	<a href="#">cluster*</a>		
<a href="#">DescribeEditor</a> [permission only]	Grants permission to view information about a notebook, including status, user, role, tags, location, and more	Read	<a href="#">editor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeJobFlows</a>	Grants permission to describe details of clusters (job flows). This API is deprecated and will eventually be removed. We recommend you use ListClusters, DescribeCluster, ListSteps, ListInstanceGroups and ListBootstrapActions instead	Read	<a href="#">cluster*</a>		
<a href="#">DescribeNotebookExecution</a>	Grants permission to view information about a notebook execution	Read	<a href="#">notebook-execution*</a>		
<a href="#">DescribePersistentAppUI</a>	Grants permission to describe a persistent application history server	Read	<a href="#">cluster*</a>		
<a href="#">DescribeReleaseLabel</a>	Grants permission to view information about an EMR release, such as which applications are supported	Read			
<a href="#">DescribeRepository</a> [permission only]	Grants permission to describe an EMR notebook repository	Read			
<a href="#">DescribeSecurityConfiguration</a>	Grants permission to get details of a security configuration	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStep</a>	Grants permission to get details about a cluster step	Read	<a href="#">cluster*</a>		
<a href="#">DescribeStudio</a>	Grants permission to view information about an EMR Studio	Read	<a href="#">studio*</a>		
<a href="#">DetachEditor</a> [permission only]	Grants permission to detach an EMR notebook from a compute engine	Write	<a href="#">editor*</a>		
<a href="#">GetAutoTerminationPolicy</a>	Grants permission to retrieve the auto-termination policy associated with a cluster	Read	<a href="#">cluster*</a>		
<a href="#">GetBlockPublicAccessConfiguration</a>	Grants permission to retrieve the EMR block public access configuration for the AWS account in the Region	Read			
<a href="#">GetClusterSessionCredentials</a>	Grants permission to retrieve HTTP basic credentials associated with a given execution IAM Role for a fine-grained access control enabled EMR Cluster	Write	<a href="#">cluster*</a>	<a href="#">elasticmapreduce:ExecutionRoleArn</a>	
<a href="#">GetManagedScalingPolicy</a>	Grants permission to retrieve the managed scaling policy associated with a cluster	Read	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOnClusterAppUIResignedURL</a>	Grants permission to get a presigned URL for an application history server running on the cluster	Write	<a href="#">cluster*</a>		
<a href="#">GetPersistentAppUIPresignedURL</a>	Grants permission to get a presigned URL for a persistent application history server	Write	<a href="#">cluster*</a>	<a href="#">elasticmapreduce:ExecutionRoleArn</a>	
<a href="#">GetStudioSessionMapping</a>	Grants permission to view information about an EMR Studio session mapping	Read	<a href="#">studio*</a>		
<a href="#">LinkRepository</a> [permission only]	Grants permission to link an EMR notebook repository to EMR notebooks	Write			
<a href="#">ListBootstrapActions</a>	Grants permission to get details about the bootstrap actions associated with a cluster	Read	<a href="#">cluster*</a>		
<a href="#">ListClusters</a>	Grants permission to get the status of accessible clusters	List			
<a href="#">ListEditors</a> [permission only]	Grants permission to list summary information for accessible EMR notebooks	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInstanceFleets</a>	Grants permission to get details of instance fleets in a cluster	Read	<a href="#">cluster*</a>		
<a href="#">ListInstanceGroups</a>	Grants permission to get details of instance groups in a cluster	Read	<a href="#">cluster*</a>		
<a href="#">ListInstances</a>	Grants permission to get details about the Amazon EC2 instances in a cluster	Read	<a href="#">cluster*</a>		
<a href="#">ListNotebookExecutions</a>	Grants permission to list summary information for notebook executions	List			
<a href="#">ListReleaseLabels</a>	Grants permission to list and filter the available EMR releases in the current region	List			
<a href="#">ListRepositories</a> [permission only]	Grants permission to list existing EMR notebook repositories	List			
<a href="#">ListSecurityConfigurations</a>	Grants permission to list available security configurations in this account by name, along with creation dates and times	List			
<a href="#">ListSteps</a>	Grants permission to list steps associated with a cluster	Read	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStudioSessionMappings</a>	Grants permission to list summary information about EMR Studio session mappings	List			
<a href="#">ListStudios</a>	Grants permission to list summary information about EMR Studios	List			
<a href="#">ListSupportedInstanceTypes</a>	Grants permission to list the Amazon EC2 instance types that an Amazon EMR release supports	List			
<a href="#">ListWorkspaceAccessIdentities</a> [permission only]	Grants permission to list identities that are granted access to a workspace	List	<a href="#">editor*</a>		
<a href="#">ModifyCluster</a>	Grants permission to change cluster settings such as number of steps that can be executed concurrently for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">ModifyInstanceFleet</a>	Grants permission to change the target On-Demand and target Spot capacities for a instance fleet	Write	<a href="#">cluster*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyInstanceGroups</a>	Grants permission to change the number and configuration of EC2 instances for an instance group	Write	<a href="#">cluster</a>		
<a href="#">OpenEditorInConsole</a> [permission only]	Grants permission to launch the Jupyter notebook editor for an EMR notebook from within the console	Write	<a href="#">editor*</a> <a href="#">cluster</a>		
<a href="#">PutAutoScalingPolicy</a>	Grants permission to create or update an automatic scaling policy for a core instance group or task instance group	Write	<a href="#">cluster*</a>		
<a href="#">PutAutoTerminationPolicy</a>	Grants permission to create or update the auto-termination policy associated with a cluster	Write	<a href="#">cluster*</a>		
<a href="#">PutBlockPublicAccessConfiguration</a>	Grants permission to create or update the EMR block public access configuration for the AWS account in the Region	Permissions management			
<a href="#">PutManagedScalingPolicy</a>	Grants permission to create or update the managed scaling policy associated with a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutWorkspaceAccess</a> [permission only]	Grants permission to allow an identity to open a collaborative workspace	Permissions management	<a href="#">editor*</a>		
<a href="#">RemoveAutoScalingPolicy</a>	Grants permission to remove an automatic scaling policy from an instance group	Write	<a href="#">cluster*</a>		
<a href="#">RemoveAutoTerminationPolicy</a>	Grants permission to remove the auto-termination policy associated with a cluster	Write	<a href="#">cluster*</a>		
<a href="#">RemoveManagedScalingPolicy</a>	Grants permission to remove the managed scaling policy associated with a cluster	Write	<a href="#">cluster*</a>		
<a href="#">RemoveTags</a>	Grants permission to remove tags from an Amazon EMR resource	Tagging	<a href="#">cluster</a>		
			<a href="#">editor</a>		
			<a href="#">notebook-execution</a>		
			<a href="#">studio</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RunJobFlow</a>	Grants permission to create and launch a cluster (job flow)	Write		<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">elasticmapreduce:RequestTag/</a> <a href="#">\${TagKey}</a> 	iam:PassRole
<a href="#">SetKeepJobFlowAliveWhenNoSteps</a>	Grants permission to add and remove auto terminate after step execution for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">SetTerminationProtection</a>	Grants permission to add and remove termination protection for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">SetUnhealthyNodeReplacement</a>	Grants permission to enable or disable unhealthy node replacement for a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetVisibleToAllUsers</a>	Grants permission to set whether all AWS Identity and Access Management (IAM) users in the AWS account can view a cluster. This API is deprecated and your cluster may be visible to all users in your account. To restrict cluster access using an IAM policy, see AWS Identity and Access Management for Amazon EMR ( <a href="https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-access-iam.html">https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-access-iam.html</a> )	Write	<a href="#">cluster*</a>		
<a href="#">StartEditor</a> [permission only]	Grants permission to start an EMR notebook	Write	<a href="#">editor*</a>		
<a href="#">StartNotebookExecution</a>	Grants permission to start an EMR notebook execution	Write	<a href="#">cluster*</a>		
			<a href="#">editor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticmapreduce:RequestTag/</a> <a href="#">\${TagKey}</a>	
<a href="#">StopEditor</a> [permission only]	Grants permission to shut down an EMR notebook	Write	<a href="#">editor*</a>		
<a href="#">StopNotebookExecution</a>	Grants permission to stop notebook execution	Write	<a href="#">notebook-execution*</a>		
<a href="#">TerminateJobFlows</a>	Grants permission to terminate a cluster (job flow)	Write	<a href="#">cluster*</a>		
<a href="#">UnlinkRepository</a> [permission only]	Grants permission to unlink an EMR notebook repository from EMR notebooks	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEditor</a> [permission only]	Grants permission to update an EMR notebook	Write	<a href="#">editor*</a>		
<a href="#">UpdateRepository</a> [permission only]	Grants permission to update an EMR notebook repository	Write			
<a href="#">UpdateStudio</a>	Grants permission to update information about an EMR Studio	Write	<a href="#">studio*</a>		
<a href="#">UpdateStudioSessionMapping</a>	Grants permission to update an EMR Studio session mapping	Write	<a href="#">studio*</a>		
<a href="#">ViewEventsFromAllClustersInConsole</a> [permission only]	Grants permission to use the EMR console to view events from all clusters	List			

## Resource types defined by Amazon Elastic MapReduce

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:elasticmapreduce:\${Region}:\${Account}:cluster/\${ClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticmapreduce:ResourceTag/\${TagKey}</a>
<a href="#">editor</a>	arn:\${Partition}:elasticmapreduce:\${Region}:\${Account}:editor/\${EditorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticmapreduce:ResourceTag/\${TagKey}</a>
<a href="#">notebook-execution</a>	arn:\${Partition}:elasticmapreduce:\${Region}:\${Account}:notebook-execution/\${NotebookExecutionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticmapreduce:ResourceTag/\${TagKey}</a>
<a href="#">studio</a>	arn:\${Partition}:elasticmapreduce:\${Region}:\${Account}:studio/\${StudioId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticmapreduce:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Elastic MapReduce

Amazon Elastic MapReduce defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by whether the tag and value pair is provided with the action	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag and value pair associated with an Amazon EMR resource	String
<a href="#">aws:TagKeys</a>	Filters access by whether the tag keys are provided with the action regardless of tag value	ArrayOfString
<a href="#">elasticmapreduce:ExecutionRoleArn</a>	Filters access by whether the execution role ARN is provided with the action	ARN
<a href="#">elasticmapreduce:RequestTag/\${TagKey}</a>	Filters access by whether the tag and value pair is provided with the action	String
<a href="#">elasticmapreduce:ResourceTag/\${TagKey}</a>	Filters access by the tag and value pair associated with an Amazon EMR resource	String

## Actions, resources, and condition keys for Amazon Elastic Transcoder

Amazon Elastic Transcoder (service prefix: `elastictranscoder`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).



- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Elastic Transcoder](#)
- [Resource types defined by Amazon Elastic Transcoder](#)
- [Condition keys for Amazon Elastic Transcoder](#)

## Actions defined by Amazon Elastic Transcoder

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelJob</a>	Cancel a job that Elastic Transcoder has not begun to process	Write	<a href="#">job*</a>		
<a href="#">CreateJob</a>	Create a job	Write	<a href="#">pipeline*</a> <a href="#">preset*</a>		
<a href="#">CreatePipeline</a>	Create a pipeline	Write			
<a href="#">CreatePreset</a>	Create a preset	Write			
<a href="#">DeletePipeline</a>	Delete a pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">DeletePreset</a>	Delete a preset	Write	<a href="#">preset*</a>		
<a href="#">ListJobsByPipeline</a>	Get a list of the jobs that you assigned to a pipeline	List	<a href="#">pipeline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListJobsByStatus</a>	Get information about all of the jobs associated with the current AWS account that have a specified status	List			
<a href="#">ListPipelines</a>	Get a list of the pipelines associated with the current AWS account	List			
<a href="#">ListPresets</a>	Get a list of all presets associated with the current AWS account	List			
<a href="#">ReadJob</a>	Get detailed information about a job	Read	<a href="#">job*</a>		
<a href="#">ReadPipeline</a>	Get detailed information about a pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">ReadPreset</a>	Get detailed information about a preset	Read	<a href="#">preset*</a>		
<a href="#">TestRole</a>	Test the settings for a pipeline to ensure that Elastic Transcoder can create and process jobs	Write			
<a href="#">UpdatePipeline</a>	Update settings for a pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">UpdatePipelineNotifications</a>	Update only Amazon Simple Notification Service (Amazon SNS) notifications for a pipeline	Write	<a href="#">pipeline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePipelineStatus</a>	Pause or reactivate a pipeline, so the pipeline stops or restarts processing jobs, update the status for the pipeline	Write	<a href="#">pipeline*</a>		

## Resource types defined by Amazon Elastic Transcoder

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">job</a>	arn:\${Partition}:elastictranscoder:\${Region}:\${Account}:job/\${JobId}	
<a href="#">pipeline</a>	arn:\${Partition}:elastictranscoder:\${Region}:\${Account}:pipeline/\${PipelineId}	
<a href="#">preset</a>	arn:\${Partition}:elastictranscoder:\${Region}:\${Account}:preset/\${PresetId}	

## Condition keys for Amazon Elastic Transcoder

Elastic Transcoder has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Elastic VMware Service

Amazon Elastic VMware Service (service prefix: `evs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Elastic VMware Service](#)
- [Resource types defined by Amazon Elastic VMware Service](#)
- [Condition keys for Amazon Elastic VMware Service](#)

## Actions defined by Amazon Elastic VMware Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateEipToVlan</a>	Grants permission to associate an Elastic IP address (EIP) with a public VLAN in an Amazon EVS environment	Write	<a href="#">environment*</a>		ec2:AssociateAddress  ec2:DescribeAddresses
<a href="#">CreateEnvironment</a>	Grants permission to create an Amazon EVS environment	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:CreateNetworkInterface ec2:CreateSubnet ec2:CreateTags ec2>DeleteNetworkInterface ec2>DeleteSubnet ec2>DeleteVolume ec2:DescribeAddresses

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeDhcpOptions ec2:DescribeHosts ec2:DescribeInstanceStatus ec2:DescribeInstances ec2:DescribeKeyPairs ec2:DescribeNetworkInterfaces ec2:DescribePlacementGroups ec2:DescribeRouteServerEndpoints



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeRouteServerPeers ec2:DescribeRouteServers ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVolumes ec2:DescribeVpcs ec2:DetachNetworkInterface ec2:DetachVolume ec2:GetAllowedImage

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					esSettings ec2:GetRouteServerAssociations ec2:ModifyInstanceAttribute ec2:ModifyNetworkInterfaceAttribute ec2:RunInstances ec2:TerminateInstances iam:CreateServiceLinkedRole kms:DescribeKey kms:ListAliases

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:CreateSecret
					secretsmanager>DeleteSecret
					secretsmanager:GetRandomPassword
					secretsmanager:GetSecretValue
					secretsmanager:TagResource
					secretsmanager:UpdateSecret
					servicequotas:GetServiceQuota
					servicequotas:List

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ServiceQuotas support:DescribeServices support:DescribeSupportLevel

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironmentHost</a>	Grants permission to add host to an Amazon EVS environment	Write	<a href="#">environment*</a>		ec2:CreateNetworkInterface ec2:CreateTags ec2:DeleteNetworkInterface ec2:DescribeDhcpOptions ec2:DescribeHosts ec2:DescribeInstanceStatus ec2:DescribeInstances ec2:DescribeKeyPairs ec2:DescribeNetworkInterfaces

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribePlacementGroups
					ec2:DescribeSecurityGroups
					ec2:DescribeSubnets
					ec2:DescribeVpcs
					ec2:ModifyNetworkInterfaceAttribute
					ec2:RunInstances
					evs:CreateEnvironmentHost
					secretsmanager:CreateSecret
					secretsmanager>DeleteSecret

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:GetRandomPassword
					secretsmanager:GetSecretValue
					secretsmanager:TagResource
					secretsmanager:UpdateSecret
					servicequotas:GetServiceQuota
					servicequotas:ListServiceQuotas

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEnvironment</a>	Grants permission to delete an Amazon EVS environment	Write	<a href="#">environment*</a>		ec2:DeleteNetworkInterface ec2:DeleteSubnet ec2:DescribeInstanceStatus ec2:DescribeInstances ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:ModifyInstanceAttribute ec2:ModifyNetworkInterfaceAttribute



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:TerminateInstances secretsmanager:DeleteSecret secretsmanager:GetSecretValue

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEnvironmentHost</a>	Grants permission to delete a host from an Amazon EVS environment	Write	<a href="#">environment*</a>		ec2:DeleteNetworkInterface  ec2:DescribeInstanceStatus  ec2:DescribeInstances  ec2:DescribeNetworkInterfaces  ec2:ModifyInstanceAttribute  ec2:ModifyNetworkInterfaceAttribute  ec2:TerminateInstances  secretsmanager:DeleteSecret

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:GetSecretValue
<a href="#">DisassociateEipFromVlan</a>	Grants permission to disassociate an Elastic IP address (EIP) from a public VLAN in an Amazon EVS environment	Write	<a href="#">environment*</a>		ec2:DisassociateAddress
<a href="#">GetEnvironment</a>	Grants permission to get an Amazon EVS environment	Read	<a href="#">environment*</a>		
<a href="#">GetVersions</a>	Grants permission to get versions provided for launch by Amazon EVS	Read			
<a href="#">ListEnvironmentHosts</a>	Grants permission to retrieve a list of hosts associated with an Amazon EVS environment	List	<a href="#">environment*</a>		
<a href="#">ListEnvironmentVlans</a>	Grants permission to retrieve a list of Amazon EVS environment VLANs	List	<a href="#">environment*</a>		
<a href="#">ListEnvironments</a>	Grants permission to retrieve a list of Amazon EVS environments in an account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags on a specified resource ARN	Read	<a href="#">environment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a specified resource ARN	Tagging	<a href="#">environment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a specified resource ARN	Tagging	<a href="#">environment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon Elastic VMware Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:evs:\${Region}:\${Account}:environment/\${EnvironmentIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Elastic VMware Service

Amazon Elastic VMware Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon ElastiCache

Amazon ElastiCache (service prefix: `elasticache`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon ElastiCache](#)
- [Resource types defined by Amazon ElastiCache](#)
- [Condition keys for Amazon ElastiCache](#)

## Actions defined by Amazon ElastiCache

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

### Note

When you create an ElastiCache policy in IAM you must use the "\*" wildcard character for the Resource block. For information about using the following ElastiCache API actions in an IAM policy, see [ElastiCache Actions and IAM](#) in the *Amazon ElastiCache User Guide*.

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToResource</a>	Grants permission to add tags to an ElastiCache resource	Tagging	<a href="#">cluster</a>		
			<a href="#">parameter group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">replicationgroup</a>		
			<a href="#">reserved-instance</a>		
			<a href="#">securitygroup</a>		
			<a href="#">serverlesscache</a>		
			<a href="#">serverlesscachesnapshot</a>		
			<a href="#">snapshot</a>		
			<a href="#">subnetgroup</a>		
			<a href="#">user</a>		
			<a href="#">usergroup</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">AuthorizeCacheSecurityGroupIngress</a>	Grants permission to authorize an EC2 security group on a ElastiCache security group	Write	<a href="#">securitygroup*</a>		ec2:AuthorizeSecurityGroupIngress
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchStopUpdateAction</a>	Grants permission to stop ElastiCache service updates from being executed on a set of clusters	Write	<a href="#">cluster</a>		
			<a href="#">replicatigroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CompleteMigration</a>	Grants permission to complete an online migration of data from hosted Redis on Amazon EC2 to ElastiCache	Write	<a href="#">cluster</a>		
			<a href="#">replicatigroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Connect</a>	Grants permission to connect as a specified ElastiCache user to an ElastiCache Replication Group or ElastiCache serverless cache	Write	<a href="#">user*</a>		
			<a href="#">replicatigroup</a>		
			<a href="#">serverlesscache</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyServerlessCacheSnapshot</a>	Grants permission to make a copy of an existing serverless cache snapshot	Write	<a href="#">serverlesscachesnapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticache:KmsKeyId</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	elasticache:AddTagsToResource
<a href="#">CopySnapshot</a>	Grants permission to make a copy of an existing snapshot	Write	<a href="#">snapshot*</a>		elasticache:AddTagsToResource  s3:DeleteObject  s3:GetBucketAcl  s3:PutObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">elasticache:KmsKeyId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCacheCluster</a>	Grants permission to create a cache cluster	Write	<a href="#">parameter group*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs elasticache:AddTagsToResource s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cluster</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:MultiAZEnabled</a> <a href="#">elasticache:AuthTokenEnabled</a> <a href="#">elasticache:SnapshotRetentionLimit</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticache:CacheParameterGroup</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">replicationgroup</a>	<a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:MultiAZEnabled</a> <a href="#">elasticache:AuthTokenEnabled</a> <a href="#">elasticache:SnapshotRetentionLimit</a> <a href="#">elasticache:CacheParameterGroupName</a>	
			<a href="#">securitygroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot</a>		
			<a href="#">subnetgroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateCacheParameterGroup</a>	Grants permission to create a parameter group	Write	<a href="#">parametergroup*</a>		elasticache:AddTagsToResource
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">elasticache:CacheParameterGroupName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCacheSecurityGroup</a>	Grants permission to create a cache security group	Write	<a href="#">securitygroup*</a>		elasticache:AddTagsToResource
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCacheSubnetGroup</a>	Grants permission to create a cache subnet group	Write	<a href="#">subnetgroup*</a>		elasticache:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGlobalReplicationGroup</a>	Grants permission to create a global replication group	Write	<a href="#">globalreplicationgroup*</a> <a href="#">replicationgroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReplicationGroup</a>	Grants permission to create a replication group	Write	<a href="#">parameter group*</a>		ec2:CreateNetworkInterface ec2>DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs elasticache:AddTagsToResource s3:GetObject
			<a href="#">cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">globalreplicationgroup</a>	<a href="#">elasticache:NumNodesGroups</a> <a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:ReplicasPerNodeGroup</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:AtRestEncryptionEnabled</a> <a href="#">elasticache:TransitionEncryptionEnabled</a> <a href="#">elasticache:AutomaticFailov</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticache:MultiAZEnabled</a>  <a href="#">elasticache:ClusterModeEnabled</a>  <a href="#">elasticache:AuthTokenEnabled</a>  <a href="#">elasticache:SnapshotRetentionLimit</a>  <a href="#">elasticache:KeyId</a>  <a href="#">elasticache:CacheParameterGroupName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">replicationgroup</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:NumNodesGroups</a> <a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:ReplicasPerNodeGroup</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:AtRestEncryptionEnabled</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticache:TransitEncryptionEnabled</a>  <a href="#">elasticache:AutomaticFailoverEnabled</a>  <a href="#">elasticache:MultiAZEnabled</a>  <a href="#">elasticache:ClusterModeEnabled</a>  <a href="#">elasticache:AuthTokenEnabled</a>  <a href="#">elasticache:SnapshotRetentionLimit</a>  <a href="#">elasticache:KmsKeyId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticache:CacheParameterGroup</a>	
			<a href="#">securitygroup</a>		
			<a href="#">snapshot</a>		
			<a href="#">subnetgroup</a>		
			<a href="#">usergroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServerlessCache</a>	Grants permission to create a serverless cache	Write	<a href="#">serverlesscache*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:SnapshotRetentionLimit</a> <a href="#">elasticache:KmsKeyId</a> <a href="#">elasticache:MinimumDataStorage</a> <a href="#">elasticache:MaximumDataStorage</a> <a href="#">elasticache:DataSt</a>	ec2:CreateTags ec2:CreateVpcEndpoint ec2:DeleteVpcEndpoints ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeTags ec2:DescribeVpcEndpoints ec2:DescribeVpcs elasticache:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">orangeUnit</a> <a href="#">elasticache:MinimumECUPerSecond</a> <a href="#">elasticache:MaximumECUPerSecond</a>	s3:GetObject
			<a href="#">serverlessnachesnapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">snapshot</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">usergroup</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServerlessCacheSnapshot</a>	Grants permission to create a copy of a serverless cache at a specific moment in time	Write	<a href="#">serverlesscache*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	elasticache:AddTagsToResource
			<a href="#">serverlesscachesnapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticache:KmsKeyId</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSnapshot</a>	Grants permission to create a copy of an entire Redis cluster at a specific moment in time	Write	<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	elasticache:AddTagsToResource
				<a href="#">aws:TagKeys</a>	s3:DeleteObject
				<a href="#">elasticache:KmsKeyId</a>	s3:GetBucketAcl s3:PutObject
			<a href="#">cluster</a>		
			<a href="#">replicationgroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateUser</a>	Grants permission to create a user for Redis. Users are supported from Redis 6.0 onwards	Write	<a href="#">user*</a>		elasticache:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:UserAuthenticationMode</a>	
<a href="#">CreateUserGroup</a>	Grants permission to create a user group for Redis. Groups are supported from Redis 6.0 onwards	Write	<a href="#">user*</a>  <a href="#">usergroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	elasticache:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DecreaseNodeGroupsInGlobalReplicationGroup</a>	Grants permission to decrease the number of node groups in global replication groups	Write	<a href="#">globalreplicationgroup*</a>		
<a href="#">DecreaseReplicaCount</a>	Grants permission to decrease the number of replicas in a Redis (cluster mode disabled) replication group or the number of replica nodes in one or more node groups (shards) of a Redis (cluster mode enabled) replication group	Write	<a href="#">replicationgroup*</a>	<a href="#">elasticache:NumNodesGroups</a>	<a href="#">ec2:CreateNetworkInterface</a> <a href="#">ec2:DeleteNetworkInterface</a> <a href="#">ec2:DescribeNetworkInterfaces</a> <a href="#">ec2:DescribeSubnets</a> <a href="#">ec2:DescribeVpcs</a>



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticache:ReplicasPerNodeGroup</a>	
<a href="#">DeleteCacheCluster</a>	Grants permission to delete a previously provisioned cluster	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
			<a href="#">snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCacheParameterGroup</a>	Grants permission to delete the specified cache parameter group	Write	<a href="#">parameter group*</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>  <a href="#">elasticache:CacheParameterGroupName</a>	
<a href="#">DeleteCacheSecurityGroup</a>	Grants permission to delete a cache security group	Write	<a href="#">securitygroup*</a>	<a href="#">aws:ResourceTag/ \${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCacheSubnetGroup</a>	Grants permission to delete a cache subnet group	Write	<a href="#">subnetgroup*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteGlobalReplicationGroup</a>	Grants permission to delete an existing global replication group	Write	<a href="#">globalreplicationgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteReplicationGroup</a>	Grants permission to delete an existing replication group	Write	<a href="#">replicationgroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
<a href="#">DeleteServerlessCache</a>	Grants permission to delete a serverless cache	Write	<a href="#">snapshot</a> <a href="#">serverlesscache*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	ec2:DescribeTags
			<a href="#">serverlesscachesnapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteServerlessCacheSnapshot</a>	Grants permission to delete a serverless cache snapshot	Write	<a href="#">serverlesscachesnapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSnapshot</a>	Grants permission to delete an existing snapshot	Write	<a href="#">snapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteUser</a>	Grants permission to delete an existing user and thus remove it from all user groups and replication groups where it was assigned	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteUserGroup</a>	Grants permission to delete an existing user group	Write	<a href="#">usergroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeCacheClusters</a>	Grants permission to list information about provisioned cache clusters	List	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCacheEngineVersions</a>	Grants permission to list available cache engines and their versions	List			
<a href="#">DescribeCacheParameterGroups</a>	Grants permission to list cache parameter group descriptions	List	<a href="#">parameter group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeCacheParameters</a>	Grants permission to retrieve the detailed parameter list for a particular cache parameter group	List	<a href="#">parameter group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeCacheSecurityGroups</a>	Grants permission to list cache security group descriptions	List	<a href="#">securitygroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeCacheSubnetGroups</a>	Grants permission to list cache subnet group descriptions	List	<a href="#">subnetgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEngineDefaultParameters</a>	Grants permission to retrieve the default engine and system parameter information for the specified cache engine	List		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeEvents</a>	Grants permission to list events related to clusters, cache security groups, and cache parameter groups	List			
<a href="#">DescribeGlobalReplicationGroups</a>	Grants permission to list information about global replication groups	List	<a href="#">globalreplicationgroup*</a>		
<a href="#">DescribeReplicationGroups</a>	Grants permission to list information about provisioned replication groups	List	<a href="#">replicationgroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeReservedCacheNodes</a>	Grants permission to list information about purchased reserved cache nodes	List	<a href="#">reserved-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeReservedCacheNodesOfferings</a>	Grants permission to list available reserved cache node offerings	List			
<a href="#">DescribeServerlessCacheSnapshots</a>	Grants permission to list information about serverless cache snapshots	List	<a href="#">serverlesscachesnapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">serverlesscache</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeServerlessCaches</a>	Grants permission to list serverless caches	List	<a href="#">serverlesscache*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeServiceUpdates</a>	Grants permission to list details of the service updates	List			
<a href="#">DescribeSnapshots</a>	Grants permission to list information about cluster or replication group snapshots	List	<a href="#">snapshot*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeUpdateActions</a>	Grants permission to list details of the update actions for a set of clusters or replication groups	List	<a href="#">cluster</a> <a href="#">replicationgroup</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeUserGroups</a>	Grants permission to list information about Redis user groups	List	<a href="#">usergroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeUsers</a>	Grants permission to list information about Redis users	List	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateGlobalReplicationGroup</a>	Grants permission to remove a secondary replication group from the global replication group	Write	<a href="#">globalreplicationgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportServerlessCacheSnapshot</a>	Grants permission to export a copy of a serverless cache at a specific moment in time to s3 bucket	Write	<a href="#">serverlesscachesnapshot*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	s3:DeleteObject  s3:ListAllMyBuckets  s3:PutObject
<a href="#">FailoverGlobalReplicationGroup</a>	Grants permission to failover the primary region to a selected secondary region of a global replication group	Write	<a href="#">globalreplicationgroup*</a>		
<a href="#">IncreaseNodeGroupsInGlobalReplicationGroup</a>	Grants permission to increase the number of node groups in a global replication group	Write	<a href="#">globalreplicationgroup*</a>	<a href="#">elasticache:NumNodeGroups</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">IncreaseReplicaCount</a>	Grants permission to increase the number of replicas in a Redis (cluster mode disabled) replication group or the number of replica nodes in one or more node groups (shards) of a Redis (cluster mode enabled) replication group	Write	<a href="#">replicationgroup*</a>	ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticache:ReplicasPerNodeGroup</a>	ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InterruptClusterAzPower</a> [permission only]	Grants permission to test an AZ power interruption for an ElastiCache resource	Write	<a href="#">replicationgroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAllowedNodeTypesModifications</a>	Grants permission to list available node type that can be used to scale a particular Redis cluster or replication group	List	<a href="#">cluster</a>		
			<a href="#">replicationgroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an ElastiCache resource	Read	<a href="#">cluster</a>		
			<a href="#">parametergroup</a>		
			<a href="#">replicationgroup</a>		
			<a href="#">reserved-instance</a>		
			<a href="#">securitygroup</a>		
			<a href="#">serverlesscache</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">serverless</a> <a href="#">scachesnapshot</a>		
			<a href="#">snapshot</a>		
			<a href="#">subnetgroup</a> <a href="#">up</a>		
			<a href="#">user</a>		
			<a href="#">usergroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyCacheCluster</a>	Grants permission to modify settings for a cluster	Write	<a href="#">cluster*</a>	<a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:MultiAZEnabled</a> <a href="#">elasticache:AuthTokenEnabled</a> <a href="#">elasticache:SnapshotRetentionLimit</a> <a href="#">elasticache:CacheParameterGroupName</a>	
			<a href="#">parametergroup</a>		
			<a href="#">securitygroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyCacheParameterGroup</a>	Grants permission to modify parameters of a cache parameter group	Write	<a href="#">parametergroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">elasticache:CacheParameterGroupName</a>	
<a href="#">ModifyCacheSubnetGroup</a>	Grants permission to modify an existing cache subnet group	Write	<a href="#">subnetgroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyGlobalReplicationGroup</a>	Grants permission to modify settings for a global replication group	Write	<a href="#">globalreplicationgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:AutomaticFailoverEnabled</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyReplicationGroup</a>	Grants permission to modify the settings for a replication group	Write	<a href="#">replicationgroup*</a>	<a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:AutomaticFailoverEnabled</a> <a href="#">elasticache:MultiAZEnabled</a> <a href="#">elasticache:AuthTokenEnabled</a> <a href="#">elasticache:SnapshotRetentionLimit</a> <a href="#">elasticache:CacheParameterGroupName</a> <a href="#">elasticache:Transi</a>	ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tEncryptionEnabled</a>  <a href="#">elasticache:ClusterModeEnabled</a>	
			<a href="#">parametergroup</a>		
			<a href="#">securitygroup</a>		
			<a href="#">usergroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyReplicationGroupShardConfiguration</a>	Grants permission to add shards, remove shards, or rebalance the keyspaces among existing shards of a replication group	Write	<a href="#">replicationgroup*</a>	ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs aws:ResourceTag/\${TagKey} elasticache:NumNodesInGroups	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyServerlessCache</a>	Grants permission to modify parameters for a serverless cache	Write	<a href="#">serverlesscache*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:SnapshotRetentionLimit</a> <a href="#">elasticache:MinimumDataStorage</a> <a href="#">elasticache:MaximumDataStorage</a> <a href="#">elasticache:DataStorageUnit</a> <a href="#">elasticache:MinimumECPUPercentage</a>	ec2:DescribeSecurityGroups ec2:DescribeTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">elasticache:MaximumECPUPercentage</a>	
			<a href="#">usergroup</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyUser</a>	Grants permission to change Redis user password(s) and/or access string	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">elasticache:UserAuthenticationMode</a>	
<a href="#">ModifyUserGroup</a>	Grants permission to change list of users that belong to the user group	Write	<a href="#">user*</a>  <a href="#">usergroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PurchaseReservedCacheNodesOffering</a>	Grants permission to purchase a reserved cache node offering	Write	<a href="#">reserved-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	elasticache:AddTagsToResource
<a href="#">RebalanceSlotsInGlobalReplicationGroup</a>	Grants permission to perform a key space rebalance operation to redistribute slots and ensure uniform key distribution across existing shards in a global replication group	Write	<a href="#">globalreplicationgroup*</a>		
<a href="#">RebootCacheCluster</a>	Grants permission to reboot some, or all, of the cache nodes within a provisioned cache cluster or replication group (cluster mode disabled)	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveTagsFromResource</a>	Grants permission to remove tags from a ElastiCache resource	Tagging	<a href="#">cluster</a> <a href="#">parametergroup</a> <a href="#">replicationgroup</a> <a href="#">reserved-instance</a> <a href="#">securitygroup</a> <a href="#">serverlesscache</a> <a href="#">serverlesscachesnapshot</a> <a href="#">snapshot</a> <a href="#">subnetgroup</a> <a href="#">user</a> <a href="#">usergroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ResetCacheParameterGroup</a>	Grants permission to modify parameters of a cache parameter group back to their default values	Write	<a href="#">parametergroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">elasticache:CacheParameterGroupName</a>	
<a href="#">RevokeCacheSecurityGroupIngress</a>	Grants permission to remove an EC2 security group ingress from a ElastiCache security group	Write	<a href="#">securitygroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartMigration</a>	Grants permission to start a migration of data from hosted Redis on Amazon EC2 to ElastiCache for Redis	Write	<a href="#">replicationgroup*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TestFailover</a>	Grants permission to test automatic failover on a specified node group in a replication group	Write	<a href="#">replicationgroup*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TestMigration</a>	Grants permission to test a migration of data from hosted Redis on Amazon EC2 to ElastiCache for Redis	Write	<a href="#">replicationgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon ElastiCache

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

The resource name in the ARN string should be lowercase to be effective.

Resource types	ARN	Condition keys
<a href="#">parameter group</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:parametergroup:\${CacheParameterGroupName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:CacheParameterGroupName</a>

Resource types	ARN	Condition keys
<a href="#">securitygroup</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:securitygroup:\${CacheSecurityGroupName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">subnetgroup</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:subnetgroup:\${CacheSubnetGroupName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

Resource types	ARN	Condition keys
<a href="#">replicationgroup</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:replicationgroup:\${ReplicationGroupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:AtRestEncryptionEnabled</a> <a href="#">elasticache:AuthTokenEnabled</a> <a href="#">elasticache:AutomaticFailoverEnabled</a> <a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:CacheParameterGroupName</a> <a href="#">elasticache:ClusterModeEnabled</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:KmsKeyId</a> <a href="#">elasticache:MultiAZEnabled</a>

Resource types	ARN	Condition keys
		<a href="#"><u>elasticache:NumNodesGroups</u></a> <a href="#"><u>elasticache:ReplicasPerNodeGroup</u></a> <a href="#"><u>elasticache:SnapshotRetentionLimit</u></a> <a href="#"><u>elasticache:TransitEncryptionEnabled</u></a>

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:cluster:\${CacheClusterId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:AuthTokeEnabled</a> <a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:CacheParameterGroupName</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:MultiAZEnabled</a> <a href="#">elasticache:SnapshotRetentionLimit</a>
<a href="#">reserved-instance</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:reserved-instance:\${ReservedCacheNodeId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

Resource types	ARN	Condition keys
<a href="#">snapshot</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:snapshot:\${SnapshotName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:KmsKeyId</a>

Resource types	ARN	Condition keys
<a href="#">globalreplicationgroup</a>	arn:\${Partition}:elasticache::\${Account}:globalreplicationgroup:\${GlobalReplicationGroupId}	<a href="#">elasticache:AtRestEncryptionEnabled</a> <a href="#">elasticache:AuthTokenEnabled</a> <a href="#">elasticache:AutomaticFailoverEnabled</a> <a href="#">elasticache:CacheNodeType</a> <a href="#">elasticache:CacheParameterGroupName</a> <a href="#">elasticache:ClusterModeEnabled</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:KmsKeyId</a> <a href="#">elasticache:MultiAZEnabled</a> <a href="#">elasticache:NumNodeGroups</a> <a href="#">elasticache:ReplicasPerNodeGroup</a> <a href="#">elasticache:SnapshotRetentionLimit</a>



Resource types	ARN	Condition keys
		<a href="#">elasticache:TransitEncryptionEnabled</a>
<a href="#">user</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:user:\${UserId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:UserAuthenticationMode</a>
<a href="#">usergroup</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:usergroup:\${UserGroupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

Resource types	ARN	Condition keys
<a href="#">serverlesscache</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:serverlesscache:\${ServerlessCacheName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:DataStorageUnit</a> <a href="#">elasticache:EngineType</a> <a href="#">elasticache:EngineVersion</a> <a href="#">elasticache:KmsKeyId</a> <a href="#">elasticache:MaximumDataStorage</a> <a href="#">elasticache:MaximumECPUPerSecond</a> <a href="#">elasticache:MinimumDataStorage</a> <a href="#">elasticache:MinimumECPUPerSecond</a> <a href="#">elasticache:SnapshotRetentionLimit</a>

Resource types	ARN	Condition keys
<a href="#">serverlesscachesnapshot</a>	arn:\${Partition}:elasticache:\${Region}:\${Account}:serverlesscachesnapshot:\${ServerlessCacheSnapshotName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">elasticache:KmsKeyId</a>

## Condition keys for Amazon ElastiCache

Amazon ElastiCache defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

### Note

To construct Condition elements using condition keys of String type, use the case insensitive condition operators `StringEqualsIgnoreCase` or `StringNotEqualsIgnoreCase` to compare a key to a string value.

For information about conditions in an IAM policy to control access to ElastiCache, see [ElastiCache Keys](#) in the *Amazon ElastiCache User Guide*.

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the tag keys that are passed in the request	ArrayOfString
<a href="#">elasticache:AtRestEncryptionEnabled</a>	Filters access by the AtRestEncryptionEnabled parameter present in the request or default false value if parameter is not present	Bool
<a href="#">elasticache:AuthTokenEnabled</a>	Filters access by the presence of non empty AuthToken parameter in the request	Bool
<a href="#">elasticache:AutomaticFailoverEnabled</a>	Filters access by the AutomaticFailoverEnabled parameter in the request	Bool
<a href="#">elasticache:CacheNodeType</a>	Filters access by the cacheNodeType parameter present in the request. This key can be used to restrict which cache node types can be used on cluster creation or scaling operations	String
<a href="#">elasticache:CacheParameterGroupName</a>	Filters access by the CacheParameterGroupName parameter in the request	String
<a href="#">elasticache:ClusterModeEnabled</a>	Filters access by the cluster mode parameter present in the request. Default value for single node group (shard) creations is false	Bool

Condition keys	Description	Type
<a href="#">elasticache:DataStorageUnit</a>	Filters access by the CacheUsageLimits.DataStorage.Unit parameter in the CreateServerlessCache and ModifyServerlessCache request	String
<a href="#">elasticache:EngineType</a>	Filters access by the engine type present in creation requests. For replication group creations, default engine 'redis' is used as key if parameter is not present	String
<a href="#">elasticache:EngineVersion</a>	Filters access by the engineVersion parameter present in creation or cluster modification requests	String
<a href="#">elasticache:KmsKeyId</a>	Filters access by the Key ID of the KMS key	String
<a href="#">elasticache:MaximumDataStorage</a>	Filters access by the CacheUsageLimits.DataStorage.Maximum parameter in the CreateServerlessCache and ModifyServerlessCache request	Numeric
<a href="#">elasticache:MaximumECPUPerSecond</a>	Filters access by the CacheUsageLimits.ECPUPerSecond.Maximum parameter in the CreateServerlessCache and ModifyServerlessCache request	Numeric
<a href="#">elasticache:MinimumDataStorage</a>	Filters access by the CacheUsageLimits.DataStorage.Minimum parameter in the CreateServerlessCache and ModifyServerlessCache request	Numeric
<a href="#">elasticache:MinimumECPUPerSecond</a>	Filters access by the CacheUsageLimits.ECPUPerSecond.Minimum parameter in the CreateServerlessCache and ModifyServerlessCache request	Numeric
<a href="#">elasticache:MultiAZEnabled</a>	Filters access by the AZMode parameter, MultiAZEnabled parameter or the number of availability zones that the cluster or replication group can be placed in	Bool

Condition keys	Description	Type
<a href="#">elasticache:NumNodeGroups</a>	Filters access by the NumNodeGroups or NodeGroup Count parameter specified in the request. This key can be used to restrict the number of node groups (shards) clusters can have after creation or scaling operations	Numeric
<a href="#">elasticache:ReplicasPerNodeGroup</a>	Filters access by the number of replicas per node group (shards) specified in creations or scaling requests	Numeric
<a href="#">elasticache:SnapshotRetentionLimit</a>	Filters access by the SnapshotRetentionLimit parameter in the request	Numeric
<a href="#">elasticache:TransitEncryptionEnabled</a>	Filters access by the TransitEncryptionEnabled parameter present in the request. For replication group creations, default value 'false' is used as key if parameter is not present	Bool
<a href="#">elasticache:UserAuthenticationMode</a>	Filters access by the UserAuthenticationMode parameter in the request	String

## Actions, resources, and condition keys for AWS Elemental Appliances and Software

AWS Elemental Appliances and Software (service prefix: `elemental-appliances-software`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elemental Appliances and Software](#)
- [Resource types defined by AWS Elemental Appliances and Software](#)
- [Condition keys for AWS Elemental Appliances and Software](#)

## Actions defined by AWS Elemental Appliances and Software

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CompleteUpload</a> [permission only]	Grants permission to complete an upload of an attachment for a quote or order	Write			
<a href="#">CreateOrderV1</a> [permission only]	Grants permission to create an order	Write			
<a href="#">CreateQuote</a> [permission only]	Grants permission to create a quote	Write	<a href="#">quote*</a>		
<a href="#">GetAvsCorrectAddress</a> [permission only]	Grants permission to validate an address	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBillingAddresses</a> [permission only]	Grants permission to list the billing addresses in the AWS Account	Read			
<a href="#">GetDeliveryAddressesV2</a> [permission only]	Grants permission to list the delivery addresses in the AWS Account	Read			
<a href="#">GetOrder</a> [permission only]	Grants permission to describe an order	Read			
<a href="#">GetOrdersV2</a> [permission only]	Grants permission to list the orders in the AWS Account	Read			
<a href="#">GetQuote</a> [permission only]	Grants permission to describe a quote	Read	<a href="#">quote*</a>		
<a href="#">GetTaxes</a> [permission only]	Grants permission to calculate taxes for an order	Read			
<a href="#">ListQuotes</a> [permission only]	Grants permission to list the quotes in the AWS Account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartUpload</a> [permission only]	Grants permission to start an upload of an attachment for a quote or order	Write			
<a href="#">SubmitOrderV1</a> [permission only]	Grants permission to submit an order	Write			
<a href="#">UpdateQuote</a> [permission only]	Grants permission to modify a quote	Write	<a href="#">quote*</a>		

## Resource types defined by AWS Elemental Appliances and Software

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">quote</a>	arn:\${Partition}:elemental-appliances-software:\${Region}:\${Account}:quote/\${ResourceId}	

## Condition keys for AWS Elemental Appliances and Software

Elemental Appliances and Software has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Elemental Appliances and Software Activation Service

AWS Elemental Appliances and Software Activation Service (service prefix: `elemental-activations`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental Appliances and Software Activation Service](#)
- [Resource types defined by AWS Elemental Appliances and Software Activation Service](#)
- [Condition keys for AWS Elemental Appliances and Software Activation Service](#)

## Actions defined by AWS Elemental Appliances and Software Activation Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CompleteAccountReg</a>	Grants permission to complete the process of	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Registration</a> [permission only]	registering customer account for AWS Elemental Appliances and Software Purchases				
<a href="#">CompleteFileUpload</a> [permission only]	Grants permission to complete the process of uploading a Software file for AWS Elemental Appliances and Software Purchases	Write			
<a href="#">ConfirmAccount</a> [permission only]	Grants permission to confirm asset ownership	Write			
<a href="#">DownloadKickstart</a> [permission only]	Grants permission to download the kickstart files for AWS Elemental Appliances and Software purchases	Read			
<a href="#">DownloadSoftware</a> [permission only]	Grants permission to download the Software files for AWS Elemental Appliances and Software Purchases	Read			
<a href="#">GenerateLicense</a> [permission only]	Grants permission to generate a software license for an AWS Elemental Appliances and Software purchase	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateLicenses</a> [permission only]	Grants permission to generate Software Licenses for AWS Elemental Appliances and Software Purchases	Write			
<a href="#">GetArtifactGroupSoftwareVersions</a> [permission only]	Grants permission to describe the software version of an artifact group	Read			
<a href="#">GetAsset</a> [permission only]	Grants permission to describe an asset	Read			
<a href="#">GetAssets</a> [permission only]	Grants permission to describe assets associated to the requesting account	Read			
<a href="#">GetProductAdvisories</a> [permission only]	Grants permission to get all product advisories	Read			
<a href="#">GetSoftwareVersions</a> [permission only]	Grants permission to describe available software versions	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartFile Upload</a> [permission only]	Grants permission to start the process of uploading a Software file for AWS Elemental Appliances and Software Purchases	Write			

## Resource types defined by AWS Elemental Appliances and Software Activation Service

AWS Elemental Appliances and Software Activation Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Elemental Appliances and Software Activation Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Elemental Appliances and Software Activation Service

Elemental Activations has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Elemental Inference

AWS Elemental Inference (service prefix: elemental-inference) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elemental Inference](#)
- [Resource types defined by AWS Elemental Inference](#)
- [Condition keys for AWS Elemental Inference](#)

## Actions defined by AWS Elemental Inference

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateFeed</a>	Grants permission to associate a feed with an AWS resource	Write	<a href="#">feed*</a>		
<a href="#">CreateFeed</a>	Grants permission to create a new feed	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteFeed</a>	Grants permission to delete a feed	Write	<a href="#">feed*</a>		
<a href="#">DisassociateFeed</a>	Grants permission to disassociate a feed from an AWS resource	Write	<a href="#">feed*</a>		
<a href="#">GetFeed</a>	Grants permission to get feed details	Read	<a href="#">feed*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMetadata</a>	Grants permission to retrieve metadata for a specific feed output	Read	<a href="#">feed*</a>		
<a href="#">ListFeeds</a>	Grants permission to list feeds in the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags on a resource	Read			
<a href="#">PutMedia</a>	Grants permission to upload media data for a specified feed	Write	<a href="#">feed*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">feed</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">feed</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateFeed</a>	Grants permission to update feed configuration	Write	<a href="#">feed*</a>		

## Resource types defined by AWS Elemental Inference

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">feed</a>	arn:\${Partition}:elemental-inference:\${Region}:\${Account}:feed/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental Inference

AWS Elemental Inference defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

# Actions, resources, and condition keys for AWS Elemental MediaConnect

AWS Elemental MediaConnect (service prefix: `mediaconnect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elemental MediaConnect](#)
- [Resource types defined by AWS Elemental MediaConnect](#)
- [Condition keys for AWS Elemental MediaConnect](#)

## Actions defined by AWS Elemental MediaConnect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddBridgeOutputs</a>	Grants permission to add outputs to an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">AddBridgeSources</a>	Grants permission to add sources to an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">AddFlowMediaStreams</a>	Grants permission to add media streams to any flow	Write	<a href="#">Flow*</a>		
			<a href="#">MediaStream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AddFlowOutputs</a>	Grants permission to add outputs to any flow	Write	<a href="#">Flow*</a>  <a href="#">Output*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AddFlowSources</a>	Grants permission to add sources to any flow	Write	<a href="#">Flow*</a>  <a href="#">Source*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AddFlowVpcInterfaces</a>	Grants permission to add VPC interfaces to any flow	Write	<a href="#">Flow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">VpcInterface*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AssociateRouterNetworkInterface</a>	Grants permission to associate a router network interface	Write			
<a href="#">CreateBridge</a>	Grants permission to create bridges	Write	<a href="#">Bridge*</a>		
<a href="#">CreateFlow</a>	Grants permission to create flows	Write	<a href="#">Flow*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGateway</a>	Grants permission to create gateways	Write	<a href="#">Gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRouterInput</a>	Grants permission to create a new router input in AWS Elemental MediaConnect	Write	<a href="#">RouterInput*</a>		ec2:CreateNetworkInterface  iam:PassRole  mediacnect:AssociateRouterNetworkInterface  mediacnect:CreateRouterInput  mediacnect:TagResource  mediacnect:UpdateFlowOutput



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateRouterNetworkInterface</a>	Grants permission to create a new router network interface in AWS Elemental MediaConnect	Write	<a href="#">RouterNetworkInterface*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole  mediconnect:CreateRouterNetworkInterface  mediconnect:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRouterOutput</a>	Grants permission to create a new router output in AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		ec2:CreateNetworkInterface  iam:PassRole  mediacnect:AssociateRouterNetworkInterface  mediacnect:CreateRouterOutput  mediacnect:TagResource  mediacnect:UpdateFlowSource  medialive:UpdateInput

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteBridge</a>	Grants permission to delete bridges	Write	<a href="#">Bridge*</a>		
<a href="#">DeleteFlow</a>	Grants permission to delete flows	Write	<a href="#">Flow*</a>		
<a href="#">DeleteGateway</a>	Grants permission to delete gateways	Write	<a href="#">Gateway*</a>		
<a href="#">DeleteRouterInput</a>	Grants permission to delete a router input in AWS Elemental MediaConnect	Write	<a href="#">RouterInput*</a>		
<a href="#">DeleteRouterNetworkInterface</a>	Grants permission to delete a router network interface from AWS Elemental MediaConnect	Write	<a href="#">RouterNetworkInterface*</a>		
<a href="#">DeleteRouterOutput</a>	Grants permission to delete a router output from AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		
<a href="#">DeregisterGatewayInstance</a>	Grants permission to deregister gateway instance	Write	<a href="#">GatewayInstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBridge</a>	Grants permission to display the details of a bridge	Read	<a href="#">Bridge*</a>		
<a href="#">DescribeFlow</a>	Grants permission to display the details of a flow including the flow ARN, name, and Availability Zone, as well as details about the source, outputs, and entitlements	Read	<a href="#">Flow*</a>		
<a href="#">DescribeFlowSourceMetadata</a>	Grants permission to view information about the flow's source transport stream and programs	Read	<a href="#">Flow*</a>		
<a href="#">DescribeFlowSourceThumbnail</a>	Grants permission to view flow's source thumbnail	Read	<a href="#">Flow*</a>		
<a href="#">DescribeGateway</a>	Grants permission to display the details of a gateway including the gateway ARN, name, and CIDR blocks, as well as details about the networks	Read	<a href="#">Gateway*</a>		
<a href="#">DescribeGatewayInstance</a>	Grants permission to display the details of a gateway instance	Read	<a href="#">GatewayInstance*</a>		
<a href="#">DescribeOffering</a>	Grants permission to display the details of an offering	Read	<a href="#">Offering*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeReservation</a>	Grants permission to display the details of a reservation	Read	<a href="#">Reservation*</a>		
<a href="#">DiscoverGatewayPollEndpoint</a>	Grants permission to discover gateway poll endpoint	Read	<a href="#">Gateway*</a>		
<a href="#">GetRouterInput</a>	Grants permission to retrieve information about a specific router input in AWS Elemental MediaConnect	Read	<a href="#">RouterInput*</a>		
<a href="#">GetRouterInputSourceMetadata</a>	Grants permission to retrieve metadata about a router input source in AWS Elemental MediaConnect	Read	<a href="#">RouterInput*</a>		
<a href="#">GetRouterInputThumbnail</a>	Grants permission to retrieve the thumbnail for a router input in AWS Elemental MediaConnect	Read	<a href="#">RouterInput*</a>		
<a href="#">GetRouterNetworkInterface</a>	Grants permission to retrieve information about a specific router network interface in AWS Elemental MediaConnect	Read	<a href="#">RouterNetworkInterface*</a>		
<a href="#">GetRouterOutput</a>	Grants permission to retrieve information about a specific router output in AWS Elemental MediaConnect	Read	<a href="#">RouterOutput*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GrantFlow Entitlements</a>	Grants permission to grant entitlements on any flow	Write	<a href="#">Entitlement*</a> <a href="#">Flow*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListBridges</a>	Grants permission to display a list of bridges that are associated with this account and an optionally specified Arn	List			
<a href="#">ListEntitlements</a>	Grants permission to display a list of all entitlements that have been granted to the account	List			
<a href="#">ListFlows</a>	Grants permission to display a list of flows that are associated with this account	List			
<a href="#">ListGatewayInstances</a>	Grants permission to display a list of instances that are associated with this gateway	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGateways</a>	Grants permission to display a list of gateways that are associated with this account	List			
<a href="#">ListOfferings</a>	Grants permission to display a list of all offerings that are available to the account in the current AWS Region	List			
<a href="#">ListReservations</a>	Grants permission to display a list of all reservations that have been purchased by the account in the current AWS Region	List			
<a href="#">ListRouterInputs</a>	Grants permission to retrieve a list of router inputs in AWS Elemental MediaConnect	List			
<a href="#">ListRouterNetworkInterfaces</a>	Grants permission to retrieve a list of router network interfaces in AWS Elemental MediaConnect	List			
<a href="#">ListRouterOutputs</a>	Grants permission to retrieve a list of router outputs in AWS Elemental MediaConnect	List			
<a href="#">ListTagsForResource</a>	Grants permission to display a list of all tags associated with a resource	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PollGateway</a>	Grants permission to poll gateway	Write			
<a href="#">PurchaseOffering</a>	Grants permission to purchase an offering	Write	<a href="#">Reservation*</a>		
<a href="#">RemoveBridgeOutput</a>	Grants permission to remove an output of an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">RemoveBridgeSource</a>	Grants permission to remove a source of an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">RemoveFlowMediaStream</a>	Grants permission to remove media streams from any flow	Write	<a href="#">Flow*</a> <a href="#">MediaStream*</a>		
<a href="#">RemoveFlowOutput</a>	Grants permission to remove outputs from any flow	Write	<a href="#">Flow*</a> <a href="#">Output*</a>		
<a href="#">RemoveFlowSource</a>	Grants permission to remove sources from any flow	Write	<a href="#">Flow*</a> <a href="#">Source*</a>		
<a href="#">RemoveFlowVpcInterface</a>	Grants permission to remove VPC interfaces from any flow	Write	<a href="#">Flow*</a> <a href="#">VpcInterface*</a>		
<a href="#">RestartRouterInput</a>	Grants permission to restart a router input in AWS Elemental MediaConnect	Write	<a href="#">RouterInput*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestartRouterOutput</a>	Grants permission to restart a router output in AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		
<a href="#">RevokeFlowEntitlement</a>	Grants permission to revoke entitlements on any flow	Write	<a href="#">Entitlement*</a>		
			<a href="#">Flow*</a>		
<a href="#">StartFlow</a>	Grants permission to start flows	Write	<a href="#">Flow*</a>		
<a href="#">StartRouterInput</a>	Grants permission to start a router input in AWS Elemental MediaConnect	Write	<a href="#">RouterInput*</a>		
<a href="#">StartRouterOutput</a>	Grants permission to start a router output in AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		
<a href="#">StopFlow</a>	Grants permission to stop flows	Write	<a href="#">Flow*</a>		
<a href="#">StopRouterInput</a>	Grants permission to stop a router input in AWS Elemental MediaConnect	Write	<a href="#">RouterInput*</a>		
<a href="#">StopRouterOutput</a>	Grants permission to stop a router output in AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		
<a href="#">SubmitGatewayStateChange</a>	Grants permission to submit gateway state change	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to associate tags with resources	Tagging	<a href="#">Entitlement</a>		
			<a href="#">Flow</a>		
			<a href="#">MediaStream</a>		
			<a href="#">Output</a>		
			<a href="#">RouterInput</a>		
			<a href="#">RouterNetworkInterface</a>		
			<a href="#">RouterOutput</a>		
			<a href="#">Source</a>		
			<a href="#">VpcInterface</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TakeRouteInput</a>	Grants permission to associate a router input with a router output in AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from resources	Tagging	<a href="#">Entitlement</a>		
			<a href="#">Flow</a>		
			<a href="#">MediaStream</a>		
			<a href="#">Output</a>		
			<a href="#">RouterInput</a>		
			<a href="#">RouterNetworkInterface</a>		
			<a href="#">RouterOutput</a>		
			<a href="#">Source</a>		
			<a href="#">VpcInterface</a>		
			<a href="#">aws:TagKeys</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBridge</a>	Grants permission to update bridges	Write	<a href="#">Bridge*</a>		
<a href="#">UpdateBridgeOutput</a>	Grants permission to update an output of an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">UpdateBridgeSource</a>	Grants permission to update a source of an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">UpdateBridgeState</a>	Grants permission to update the state of an existing bridge	Write	<a href="#">Bridge*</a>		
<a href="#">UpdateFlow</a>	Grants permission to update flows	Write	<a href="#">Flow*</a>		
<a href="#">UpdateFlowEntitlement</a>	Grants permission to update entitlements on any flow	Write	<a href="#">Flow*</a>		
<a href="#">UpdateFlowMediaStream</a>	Grants permission to update media streams on any flow	Write	<a href="#">Flow*</a> <a href="#">MediaStream*</a>		
<a href="#">UpdateFlowOutput</a>	Grants permission to update outputs on any flow	Write	<a href="#">Flow*</a> <a href="#">Output*</a>		
<a href="#">UpdateFlowSource</a>	Grants permission to update the source of any flow	Write	<a href="#">Flow*</a> <a href="#">Source*</a>		
<a href="#">UpdateGatewayInstance</a>	Grants permission to update the configuration of an existing Gateway Instance	Write	<a href="#">GatewayInstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRouterInput</a>	Grants permission to update the configuration of a router input in AWS Elemental MediaConnect	Write	<a href="#">RouterInput*</a>		ec2:CreateNetworkInterface iam:PassRole mediamconnect:AssociateRouterNetworkInterface mediamconnect:UpdateFlowOutput mediamconnect:UpdateRouterInput
<a href="#">UpdateRouterNetworkInterface</a>	Grants permission to updated the configuration of a router network interface in AWS Elemental MediaConnect	Write	<a href="#">RouterNetworkInterface*</a>		iam:CreateServiceLinkedRole mediamconnect:UpdateRouterNetworkInterface

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRouterOutput</a>	Grants permission to update the configuration of a router output in AWS Elemental MediaConnect	Write	<a href="#">RouterOutput*</a>		ec2:CreateNetworkInterface iam:PassRole mediacnect:AssociateRouterNetworkInterface mediacnect:UpdateFlowSource mediacnect:UpdateRouterOutput medialive:UpdateInput

## Resource types defined by AWS Elemental MediaConnect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Bridge</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:bridge:\${BridgeId}:\${BridgeName}	
<a href="#">Entitlement</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:entitlement:\${FlowId}:\${EntitlementName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Flow</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:flow:\${FlowId}:\${FlowName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Gateway</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:gateway:\${GatewayId}:\${GatewayName}	
<a href="#">GatewayInstance</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:gateway:\${GatewayId}:\${GatewayName}:instance:\${InstanceId}	
<a href="#">MediaStream</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:flow:\${FlowId}:\${FlowName}/mediaStream/\${MediaStreamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Offering</a>	arn:\${Partition}:mediacconnect:\${Region}:offering:\${OfferingId}	
<a href="#">Output</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:output:\${OutputId}:\${OutputName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Reservation</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:reservation:\${ReservationId}:\${ReservationName}	
<a href="#">RouterInput</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:routerInput:\${RouterInputId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RouterNetworkInterface</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:routerNetworkInterface:\${RouterNetworkInterfaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RouterOutput</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:routerOutput:\${RouterOutputId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Source</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:source:\${SourceId}:\${SourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VpcInterface</a>	arn:\${Partition}:mediacconnect:\${Region}:\${Account}:flow:\${FlowId}:\${FlowName}/vpcInterface/\${VpcInterfaceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental MediaConnect

AWS Elemental MediaConnect defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).



Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental MediaConvert

AWS Elemental MediaConvert (service prefix: `mediaconvert`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental MediaConvert](#)
- [Resource types defined by AWS Elemental MediaConvert](#)
- [Condition keys for AWS Elemental MediaConvert](#)

## Actions defined by AWS Elemental MediaConvert


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateCertificate</a>	Grants permission to associate an AWS Certificate Manager (ACM) Amazon Resource Name (ARN) with AWS Elemental MediaConvert	Write			
<a href="#">CancelJob</a>	Grants permission to cancel an AWS Elemental MediaConvert job that is waiting in queue	Write	<a href="#">Job*</a>		
<a href="#">CreateJob</a>	Grants permission to create and submit an AWS Elemental MediaConvert job	Write	<a href="#">JobTemplate</a>		
			<a href="#">Preset</a>		
			<a href="#">Queue</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">mediaconvert:HttpInputsAllowed</a>	
				<a href="#">mediaconvert:Https</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">InputsAllowed</a> <a href="#">mediaconvert:S3InputsAllowed</a>	
<a href="#">CreateJobTemplate</a>	Grants permission to create an AWS Elemental MediaConvert custom job template	Write	<a href="#">Preset</a> <a href="#">Queue</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePreset</a>	Grants permission to create an AWS Elemental MediaConvert custom output preset	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateQueue</a>	Grants permission to create an AWS Elemental MediaConvert job queue	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateResourceShare</a>	Grants permission to share an AWS Elemental MediaConvert job	Write	<a href="#">Job</a>		
<a href="#">DeleteJobTemplate</a>	Grants permission to delete an AWS Elemental MediaConvert custom job template	Write	<a href="#">JobTemplate*</a>		
<a href="#">DeletePolicy</a>	Grants permission to delete an AWS Elemental MediaConvert policy	Write			
<a href="#">DeletePreset</a>	Grants permission to delete an AWS Elemental MediaConvert custom output preset	Write	<a href="#">Preset*</a>		
<a href="#">DeleteQueue</a>	Grants permission to delete an AWS Elemental MediaConvert job queue	Write	<a href="#">Queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEndpoints</a>	Grants permission to subscribe to the AWS Elemental MediaConvert service, by sending a request for an account-specific endpoint. All transcoding requests must be sent to the endpoint that the service returns	List			
<a href="#">DisassociateCertificate</a>	Grants permission to remove an association between the Amazon Resource Name (ARN) of an AWS Certificate Manager (ACM) certificate and an AWS Elemental MediaConvert resource	Write			
<a href="#">GetJob</a>	Grants permission to get an AWS Elemental MediaConvert job	Read	<a href="#">Job*</a>		
<a href="#">GetJobTemplate</a>	Grants permission to get an AWS Elemental MediaConvert job template	Read	<a href="#">JobTemplate*</a>		
<a href="#">GetPolicy</a>	Grants permission to get an AWS Elemental MediaConvert policy	Read			
<a href="#">GetPreset</a>	Grants permission to get an AWS Elemental MediaConvert output preset	Read	<a href="#">Preset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetQueue</a>	Grants permission to get an AWS Elemental MediaConvert job queue	Read	<a href="#">Queue*</a>		
<a href="#">ListJobTemplates</a>	Grants permission to list AWS Elemental MediaConvert job templates	List			
<a href="#">ListJobs</a>	Grants permission to list AWS Elemental MediaConvert jobs	List	<a href="#">Queue</a>		
<a href="#">ListPresets</a>	Grants permission to list AWS Elemental MediaConvert output presets	List			
<a href="#">ListQueues</a>	Grants permission to list AWS Elemental MediaConvert job queues	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve the tags for a MediaConvert queue, preset, or job template	Read	<a href="#">Job</a>		
			<a href="#">JobTemplate</a>		
			<a href="#">Preset</a>		
			<a href="#">Queue</a>		
<a href="#">ListVersions</a>	Grants permission to list AWS Elemental MediaConvert job engine versions	List			
<a href="#">Probe</a>	Grants permission to probe a file	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutPolicy</a>	Grants permission to put an AWS Elemental MediaConvert policy	Write			
<a href="#">SearchJobs</a>	Grants permission to search AWS Elemental MediaConvert jobs	List	<a href="#">Queue</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a MediaConvert queue, preset, or job template	Tagging	<a href="#">Job</a>		
			<a href="#">JobTemplate</a>		
			<a href="#">Preset</a>		
			<a href="#">Queue</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	<a href="#">aws:TagKeys</a>
<a href="#">UntagResource</a>	Grants permission to remove tags from a MediaConvert queue, preset, or job template	Tagging	<a href="#">Job</a>		
			<a href="#">JobTemplate</a>		
			<a href="#">Preset</a>		
			<a href="#">Queue</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateJobTemplate</a>	Grants permission to update an AWS Elemental MediaConvert custom job template	Write	<a href="#">JobTemplate*</a>		
			<a href="#">Preset</a>		
			<a href="#">Queue</a>		
<a href="#">UpdatePreset</a>	Grants permission to update an AWS Elemental MediaConvert custom output preset	Write	<a href="#">Preset*</a>		
<a href="#">UpdateQueue</a>	Grants permission to update an AWS Elemental MediaConvert job queue	Write	<a href="#">Queue*</a>		

## Resource types defined by AWS Elemental MediaConvert

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Job</a>	arn:\${Partition}:mediaconvert:\${Region}:\${Account}:jobs/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Queue</a>	arn:\${Partition}:mediaconvert:\${Region}:\${Account}:queues/\${QueueName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Preset</a>	arn:\${Partition}:mediaconvert:\${Region}:\${Account}:presets/\${PresetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">JobTemplate</a>	arn:\${Partition}:mediaconvert:\${Region}:\${Account}:jobTemplates/\${JobTemplateName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">CertificateAssociation</a>	arn:\${Partition}:mediaconvert:\${Region}:\${Account}:certificates/\${CertificateArn}	

## Condition keys for AWS Elemental MediaConvert

AWS Elemental MediaConvert defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">mediaconv ert:HttpI nputsAllowed</a>	Filters access by an HTTP input policy present in the account	Bool
<a href="#">mediaconv ert:Https InputsAllowed</a>	Filters access by an HTTPS input policy present in the account	Bool
<a href="#">mediaconv ert:S3Inp utsAllowed</a>	Filters access by an S3 input policy present in the account	Bool

## Actions, resources, and condition keys for AWS Elemental MediaLive

AWS Elemental MediaLive (service prefix: `medialive`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental MediaLive](#)
- [Resource types defined by AWS Elemental MediaLive](#)
- [Condition keys for AWS Elemental MediaLive](#)

## Actions defined by AWS Elemental MediaLive

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptInputDeviceTransfer</a>	Grants permission to accept an input device transfer	Write	<a href="#">input-device*</a>		
<a href="#">BatchDelete</a>	Grants permission to delete channels, inputs, input security groups, and multiplexes	Write			
<a href="#">BatchStart</a>	Grants permission to start channels and multiplexes	Write			
<a href="#">BatchStop</a>	Grants permission to stop channels and multiplexes	Write			
<a href="#">BatchUpdateSchedule</a>	Grants permission to add and remove actions from a channel's schedule	Write	<a href="#">channel*</a>		
<a href="#">CancelInputDeviceTransfer</a>	Grants permission to cancel an input device transfer	Write	<a href="#">input-device*</a>		
<a href="#">ClaimDevice</a>	Grants permission to claim an input device	Write	<a href="#">input-device*</a>		
<a href="#">CreateChannel</a>	Grants permission to create a channel	Write	<a href="#">channel*</a>		
			<a href="#">input*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateChannelPlacementGroup</a>	Grants permission to create a cluster	Write	<a href="#">channel-placement-group*</a>		
			<a href="#">cluster*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateCloudWatchAlarmTemplate</a>	Grants permission to create a cloudwatch alarm template	Write	<a href="#">cloudwatch-alarm-template*</a>		
			<a href="#">cloudwatch-alarm-template-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCloudWatchAlarmTemplateGroup</a>	Grants permission to create a cloudwatch alarm template group	Write	<a href="#">cloudwatch- alarm-template- group*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCluster</a>	Grants permission to create a cluster	Write	<a href="#">cluster*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEventBridgeRuleTemplate</a>	Grants permission to create a eventbridge rule template	Write	<a href="#">eventbridge-rule-template*</a>		
			<a href="#">eventbridge-rule-template-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateEventBridgeRuleTemplateGroup</a>	Grants permission to create a eventbridge rule template group	Write	<a href="#">eventbridge-rule-template-group*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateInput</a>	Grants permission to create an input	Write	<a href="#">input*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">input-security-group*</a>		
<a href="#">CreateInputSecurityGroup</a>	Grants permission to create an input security group	Write	<a href="#">input-security-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMultiplex</a>	Grants permission to create a multiplex	Write	<a href="#">multiplex*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMultiplexProgram</a>	Grants permission to create a multiplex program	Write	<a href="#">multiplex*</a>		
<a href="#">CreateNetwork</a>	Grants permission to create a network	Write	<a href="#">network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateNode</a>	Grants permission to create a node	Write	<a href="#">cluster*</a> <a href="#">node*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateNodeRegistrationScript</a>	Grants permission to create a node registration script	Write	<a href="#">cluster*</a>		
<a href="#">CreatePartnerInput</a>	Grants permission to create a partner input	Write	<a href="#">input*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSdiSource</a>	Grants permission to create a SDI source	Write	<a href="#">sdi-source*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSignalMap</a>	Grants permission to create a signal map	Write	<a href="#">signal-map*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTags</a>	Grants permission to create tags for channels, inputs, input security groups, multiplexes, reservations, nodes, networks, clusters, channel placement groups, signal maps, SDI sources, template groups, and templates	Tagging	<a href="#">channel</a>		
			<a href="#">channel-placement-group</a>		
			<a href="#">cloudwatch-alarm-template</a>		
			<a href="#">cloudwatch-alarm-template-group</a>		
			<a href="#">cluster</a>		
			<a href="#">eventbridge-rule-template</a>		
			<a href="#">eventbridge-rule-template-group</a>		
			<a href="#">input</a>		
<a href="#">input-security-group</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">multiplex</a>		
			<a href="#">network</a>		
			<a href="#">node</a>		
			<a href="#">reservati on</a>		
			<a href="#">sdi-sourc e</a>		
			<a href="#">signal- map</a>		
				<a href="#">aws:TagKe ys</a>	
				<a href="#">aws:Reque stTag/ \${T agKey}</a>	
<a href="#">DeleteChannel</a>	Grants permission to delete a channel	Write	<a href="#">channel*</a>		
<a href="#">DeleteChannelPlacementGroup</a>	Grants permission to delete a cluster	Write	<a href="#">channel- p lacement- group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCloudWatchAlarmTemplate</a>	Grants permission to delete a cloudwatch alarm template	Write	<a href="#">cloudwatch-h-alarm-template*</a>		
<a href="#">DeleteCloudWatchAlarmTemplateGroup</a>	Grants permission to delete a cloudwatch alarm template group	Write	<a href="#">cloudwatch-h-alarm-template-group*</a>		
<a href="#">DeleteCluster</a>	Grants permission to delete a cluster	Write	<a href="#">cluster*</a>		
<a href="#">DeleteEventBridgeRuleTemplate</a>	Grants permission to delete a eventbridge rule template	Write	<a href="#">eventbridge-rule-template*</a>		
<a href="#">DeleteEventBridgeRuleTemplateGroup</a>	Grants permission to delete a eventbridge rule template group	Write	<a href="#">eventbridge-rule-template-group*</a>		
<a href="#">DeleteInput</a>	Grants permission to delete an input	Write	<a href="#">input*</a>		
<a href="#">DeleteInputSecurityGroup</a>	Grants permission to delete an input security group	Write	<a href="#">input-security-group*</a>		
<a href="#">DeleteMultiplex</a>	Grants permission to delete a multiplex	Write	<a href="#">multiplex*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMultiplexProgram</a>	Grants permission to delete a multiplex program	Write	<a href="#">multiplex*</a>		
<a href="#">DeleteNetwork</a>	Grants permission to delete a network	Write	<a href="#">network*</a>		
<a href="#">DeleteNode</a>	Grants permission to delete a node	Write	<a href="#">node*</a>		
<a href="#">DeleteReservation</a>	Grants permission to delete an expired reservation	Write	<a href="#">reservation*</a>		
<a href="#">DeleteSchedule</a>	Grants permission to delete all schedule actions for a channel	Write	<a href="#">channel*</a>		
<a href="#">DeleteSdiSource</a>	Grants permission to delete a SDI source	Write	<a href="#">sdi-source*</a>		
<a href="#">DeleteSignalMap</a>	Grants permission to delete a signal map	Write	<a href="#">signal-map*</a>		
<a href="#">DeleteTags</a>	Grants permission to delete tags from channels, inputs, input security groups, multiplexes, reservations, nodes, clusters, networks, channel placement groups, SDI source, signal maps, template groups, and templates	Tagging	<a href="#">channel</a> <a href="#">channel-placement-group</a> <a href="#">cloudwatch-alarm-template</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cloudwatch-h-alarm-template-group</a>		
			<a href="#">cluster</a>		
			<a href="#">eventbridge-rule-template</a>		
			<a href="#">eventbridge-rule-template-group</a>		
			<a href="#">input</a>		
			<a href="#">input-security-group</a>		
			<a href="#">multiplex</a>		
			<a href="#">network</a>		
			<a href="#">node</a>		
			<a href="#">reservation</a>		
			<a href="#">sdi-source</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">signal-map</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">DescribeAccountConfiguration</a>	Grants permission to view the account configuration of the customer	Read			
<a href="#">DescribeChannel</a>	Grants permission to get details about a channel	Read	<a href="#">channel*</a>		
<a href="#">DescribeChannelPlacementGroup</a>	Grants permission to describe a channel placement group	Read	<a href="#">channel-placement-group*</a>		
<a href="#">DescribeCluster</a>	Grants permission to describe a cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeInput</a>	Grants permission to describe an input	Read	<a href="#">input*</a>		
<a href="#">DescribeInputDevice</a>	Grants permission to describe an input device	Read	<a href="#">input-device*</a>		
<a href="#">DescribeInputDeviceThumbnail</a>	Grants permission to describe an input device thumbnail	Read	<a href="#">input-device*</a>		
<a href="#">DescribeInputSecurityGroup</a>	Grants permission to describe an input security group	Read	<a href="#">input-security-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMultiplex</a>	Grants permission to describe a multiplex	Read	<a href="#">multiplex*</a>		
<a href="#">DescribeMultiplexProgram</a>	Grants permission to describe a multiplex program	Read	<a href="#">multiplex*</a>		
<a href="#">DescribeNetwork</a>	Grants permission to describe a network	Read	<a href="#">network*</a>		
<a href="#">DescribeNode</a>	Grants permission to describe a node	Read	<a href="#">node*</a>		
<a href="#">DescribeOffering</a>	Grants permission to get details about a reservation offering	Read	<a href="#">offering*</a>		
<a href="#">DescribeReservation</a>	Grants permission to get details about a reservation	Read	<a href="#">reservation*</a>		
<a href="#">DescribeSchedule</a>	Grants permission to view a list of actions scheduled on a channel	Read	<a href="#">channel*</a>		
<a href="#">DescribeSDISource</a>	Grants permission to describe a SDI source	Read	<a href="#">sdi-source*</a>		
<a href="#">DescribeChannelThumbnails</a>	Grants permission to view the thumbnails for a channel	Read	<a href="#">channel*</a>		
<a href="#">GetCloudWatchAlarmTemplate</a>	Grants permission to get a cloudwatch alarm template	Read	<a href="#">cloudwatch-alarm-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCloudWatchAlarmTemplateGroup</a>	Grants permission to get a cloudwatch alarm template group	Read	<a href="#">cloudwatch-alarm-template-group*</a>		
<a href="#">GetEventBridgeRuleTemplate</a>	Grants permission to get a eventbridge rule template	Read	<a href="#">eventbridge-rule-template*</a>		
<a href="#">GetEventBridgeRuleTemplateGroup</a>	Grants permission to get a eventbridge rule template group	Read	<a href="#">eventbridge-rule-template-group*</a>		
<a href="#">GetSignalMap</a>	Grants permission to get a signal map	Read	<a href="#">signal-map*</a>		
<a href="#">ListAlerts</a>	Grants permission to list channel alerts	List			
<a href="#">ListChannelPlacementGroups</a>	Grants permission to list channel placement groups	List			
<a href="#">ListChannels</a>	Grants permission to list channels	List			
<a href="#">ListCloudWatchAlarmTemplateGroups</a>	Grants permission to list cloudwatch alarm template groups	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCloudWatchAlarmTemplates</a>	Grants permission to list cloudwatch alarm templates	List			
<a href="#">ListClusterAlerts</a>	Grants permission to list cluster alerts	List			
<a href="#">ListClusters</a>	Grants permission to list clusters	List			
<a href="#">ListEventBridgeRuleTemplateGroups</a>	Grants permission to list eventbridge rule template groups	List			
<a href="#">ListEventBridgeRuleTemplates</a>	Grants permission to list eventbridge rule templates	List			
<a href="#">ListInputDeviceTransfers</a>	Grants permission to list input device transfers	List			
<a href="#">ListInputDevices</a>	Grants permission to list input devices	List			
<a href="#">ListInputSecurityGroups</a>	Grants permission to list input security groups	List			
<a href="#">ListInputs</a>	Grants permission to list inputs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMultiplexAlerts</a>	Grants permission to list multiplex alerts	List			
<a href="#">ListMultiplexPrograms</a>	Grants permission to list multiplex programs	List			
<a href="#">ListMultiplexes</a>	Grants permission to list multiplexes	List			
<a href="#">ListNetworks</a>	Grants permission to list networks	List			
<a href="#">ListNodes</a>	Grants permission to list nodes	List			
<a href="#">ListOfferings</a>	Grants permission to list reservation offerings	List			
<a href="#">ListReservations</a>	Grants permission to list reservations	List			
<a href="#">ListSdiSources</a>	Grants permission to list SDI sources	List			
<a href="#">ListSignalMaps</a>	Grants permission to list signal maps	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for channels, inputs, input security groups, multiplexes, reservations, nodes, clusters, networks, channel placement groups, SDI sources, signal maps, template groups, and templates	List	<a href="#">channel</a> <a href="#">channel-placement-group</a> <a href="#">cloudwatch-alarm-template</a> <a href="#">cloudwatch-alarm-template-group</a> <a href="#">cluster</a> <a href="#">eventbridge-rule-template</a> <a href="#">eventbridge-rule-template-group</a> <a href="#">input</a> <a href="#">input-security-group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">multiplex</a>		
			<a href="#">network</a>		
			<a href="#">node</a>		
			<a href="#">reservation</a>		
			<a href="#">sdi-source</a>		
			<a href="#">signal-map</a>		
<a href="#">ListVersions</a>	Grants permission to list available versions of MediaLive	List			
<a href="#">PollAnywhere</a>	Grants permission to the node to poll the cluster	Write			
<a href="#">PurchaseOffering</a>	Grants permission to purchase a reservation offering	Write	<a href="#">offering*</a>		
			<a href="#">reservation*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RebootInputDevice</a>	Grants permission to reboot an input device	Write	<a href="#">input-device*</a>		
<a href="#">RejectInputDeviceTransfer</a>	Grants permission to reject an input device transfer	Write	<a href="#">input-device*</a>		
<a href="#">RestartChannelPipelines</a>	Grants permission to restart pipelines on a running channel	Write	<a href="#">channel*</a>		
<a href="#">StartChannel</a>	Grants permission to start a channel	Write	<a href="#">channel*</a>		
<a href="#">StartDeleteMonitorDeployment</a>	Grants permission to start deletion of a signal map's monitor	Write	<a href="#">signal-map*</a>		
<a href="#">StartInputDevice</a>	Grants permission to start an input device attached to a MediaConnect flow	Write	<a href="#">input-device*</a>		
<a href="#">StartInputDeviceMaintenanceWindow</a>	Grants permission to start a maintenance window for an input device	Write	<a href="#">input-device*</a>		
<a href="#">StartMonitorDeployment</a>	Grants permission to start a signal map monitor deployment	Write	<a href="#">signal-map*</a>		
<a href="#">StartMultiplex</a>	Grants permission to start a multiplex	Write	<a href="#">multiplex*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartUpdateSignalMap</a>	Grants permission to start a signal map update	Write	<a href="#">signal-map*</a>		
<a href="#">StopChannel</a>	Grants permission to stop a channel	Write	<a href="#">channel*</a>		
<a href="#">StopInputDevice</a>	Grants permission to stop an input device attached to a MediaConnect flow	Write	<a href="#">input-device*</a>		
<a href="#">StopMultiplex</a>	Grants permission to stop a multiplex	Write	<a href="#">multiplex*</a>		
<a href="#">SubmitAnywhereStateChange</a>	Grants permission to the node to submit state changes to the cluster	Write			
<a href="#">TransferInputDevice</a>	Grants permission to transfer an input device	Write	<a href="#">input-device*</a>		
<a href="#">UpdateAccountConfiguration</a>	Grants permission to update a customer's account configuration	Write			
<a href="#">UpdateChannel</a>	Grants permission to update a channel	Write	<a href="#">channel*</a>		
<a href="#">UpdateChannelClass</a>	Grants permission to update the class of a channel	Write	<a href="#">channel*</a>		
<a href="#">UpdateChannelPlacementGroup</a>	Grants permission to update a node	Write	<a href="#">channel-placement-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCloudWatchAlarmTemplate</a>	Grants permission to update a cloudwatch alarm template	Write	<a href="#">cloudwatch:alarm-template*</a>		
			<a href="#">cloudwatch:alarm-template-group*</a>		
<a href="#">UpdateCloudWatchAlarmTemplateGroup</a>	Grants permission to update a cloudwatch alarm template group	Write	<a href="#">cloudwatch:alarm-template-group*</a>		
<a href="#">UpdateCluster</a>	Grants permission to update a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateEventBridgeRuleTemplate</a>	Grants permission to update a eventbridge rule template	Write	<a href="#">eventbridge-rule-template*</a> <a href="#">eventbridge-rule-template-group*</a>		
<a href="#">UpdateEventBridgeRuleTemplateGroup</a>	Grants permission to update a eventbridge rule template group	Write	<a href="#">eventbridge-rule-template-group*</a>		
<a href="#">UpdateInput</a>	Grants permission to update an input	Write	<a href="#">input*</a>		
<a href="#">UpdateInputDevice</a>	Grants permission to update an input device	Write	<a href="#">input-device*</a>		
<a href="#">UpdateInputSecurityGroup</a>	Grants permission to update an input security group	Write	<a href="#">input-security-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateMultiplex</a>	Grants permission to update a multiplex	Write	<a href="#">multiplex*</a>		
<a href="#">UpdateMultiplexProgram</a>	Grants permission to update a multiplex program	Write	<a href="#">multiplex*</a>		
<a href="#">UpdateNetwork</a>	Grants permission to update the state of a node	Write	<a href="#">network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateNode</a>	Grants permission to update a node	Write	<a href="#">node*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNodeState</a>	Grants permission to update the state of a node	Write	<a href="#">node*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateReservation</a>	Grants permission to update a reservation	Write	<a href="#">reservation*</a>		
<a href="#">UpdateSdiSource</a>	Grants permission to update the state of a sdi source	Write	<a href="#">sdi-source*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Elemental MediaLive

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">channel</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:channel:\${ChannelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">input</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:input:\${InputId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">input-device</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:inputDevice:\${DeviceId}	
<a href="#">input-security-group</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:inputSecurityGroup:\${InputSecurityGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">multiplex</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:multiplex:\${MultiplexId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">reservation</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:reservation:\${ReservationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">offering</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:offering:\${OfferingId}	
<a href="#">signal-map</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:signal-map:\${SignalMapId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cloudwatch-alarm-template-group</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:cloudwatch-alarm-template-group:\${CloudWatchAlarmTemplateGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cloudwatch-alarm-template</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:cloudwatch-alarm-template:\${CloudWatchAlarmTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">eventbridge-rule-template-group</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:eventbridge-rule-template-group:\${EventBridgeRuleTemplateGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">eventbridge-rule-template</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:eventbridge-rule-template:\${EventBridgeRuleTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cluster</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:cluster:\${ClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">node</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:node:\${ClusterId}/\${NodeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">network</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:network:\${NetworkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">channel-placement-group</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:channelPlacementGroup:\${ClusterId}/\${ChannelPlacementGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sdi-source</a>	arn:\${Partition}:medialive:\${Region}:\${Account}:sdiSource:\${SdiSourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental MediaLive

AWS Elemental MediaLive defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental MediaPackage

AWS Elemental MediaPackage (service prefix: `mediapackage`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental MediaPackage](#)
- [Resource types defined by AWS Elemental MediaPackage](#)
- [Condition keys for AWS Elemental MediaPackage](#)

## Actions defined by AWS Elemental MediaPackage

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,




you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Configure Logs</a>	Grants permission to configure access logs for a Channel	Write	<a href="#">channels*</a>		iam:CreateServiceLinkedRole
<a href="#">CreateChannel</a>	Grants permission to create a channel in AWS Elemental MediaPackage	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateHarvestJob</a>	Grants permission to create a harvest job in AWS Elemental MediaPackage	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateOriginEndpoint</a>	Grants permission to create an endpoint in AWS Elemental MediaPackage	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteChannel</a>	Grants permission to delete a channel in AWS Elemental MediaPackage	Write	<a href="#">channels*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOriginEndpoint</a>	Grants permission to delete an endpoint in AWS Elemental MediaPackage	Write	<a href="#">origin_endpoints*</a>		
<a href="#">DescribeChannel</a>	Grants permission to view the details of a channel in AWS Elemental MediaPackage	Read	<a href="#">channels*</a>		
<a href="#">DescribeHarvestJob</a>	Grants permission to view the details of a harvest job in AWS Elemental MediaPackage	Read	<a href="#">harvest_jobs*</a>		
<a href="#">DescribeOriginEndpoint</a>	Grants permission to view the details of an endpoint in AWS Elemental MediaPackage	Read	<a href="#">origin_endpoints*</a>		
<a href="#">ListChannels</a>	Grants permission to view a list of channels in AWS Elemental MediaPackage	Read			
<a href="#">ListHarvestJobs</a>	Grants permission to view a list of harvest jobs in AWS Elemental MediaPackage	Read			
<a href="#">ListOriginEndpoints</a>	Grants permission to view a list of endpoints in AWS Elemental MediaPackage	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags assigned to a Channel or OriginEndpoint	Read	<a href="#">channels</a> <a href="#">harvest_jobs</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">origin_endpoints</a>		
<a href="#">RotateChannelCredentials</a>	Grants permission to rotate credentials for the first IngestEndpoint of a Channel in AWS Elemental MediaPackage	Write	<a href="#">channels*</a>		
<a href="#">RotateIngestEndpointCredentials</a>	Grants permission to rotate IngestEndpoint credentials for a Channel in AWS Elemental MediaPackage	Write	<a href="#">channels*</a>		
<a href="#">TagResource</a>	Grants permission to tag a MediaPackage resource	Tagging	<a href="#">channels</a>		
			<a href="#">harvest_jobs</a>		
			<a href="#">origin_endpoints</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to delete tags to a Channel or OriginEndpoint	Tagging	<a href="#">channels</a>		
			<a href="#">harvest_jobs</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">origin_endpoints</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateChannel</a>	Grants permission to make changes to a channel in AWS Elemental MediaPackage	Write	<a href="#">channels*</a>		
<a href="#">UpdateOriginEndpoint</a>	Grants permission to make changes to an endpoint in AWS Elemental MediaPackage	Write	<a href="#">origin_endpoints*</a>		

## Resource types defined by AWS Elemental MediaPackage

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">channels</a>	arn:\${Partition}:mediapackage:\${Region}:\${Account}:channels/\${ChannelIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">origin_endpoints</a>	arn:\${Partition}:mediapackage:\${Region}:\${Account}:origin_endpoints/\${OriginEndpointIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">harvest_jobs</a>	arn:\${Partition}:mediapackage:\${Region}:\${Account}:harvest_jobs/\${HarvestJobIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental MediaPackage

AWS Elemental MediaPackage defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag for a MediaPackage request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag for a MediaPackage resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys for a MediaPackage resource or request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental MediaPackage V2

AWS Elemental MediaPackage V2 (service prefix: mediapackagev2) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elemental MediaPackage V2](#)
- [Resource types defined by AWS Elemental MediaPackage V2](#)
- [Condition keys for AWS Elemental MediaPackage V2](#)

## Actions defined by AWS Elemental MediaPackage V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelHarvestJob</a>	Grants permission to cancel a harvest job	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">HarvestJob*</a>		
			<a href="#">OriginEndpoint*</a>		
<a href="#">CreateChannel</a>	Grants permission to create a channel in a channel group	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
				<a href="#">aws:RequestTag/</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateChannelGroup</a>	Grants permission to create a channel group	Write	<a href="#">ChannelGroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateHarvestJob</a>	Grants permission to create a harvest job	Write	<a href="#">Channel*</a> <a href="#">ChannelGroup*</a> <a href="#">HarvestJob*</a> <a href="#">OriginEndpoint*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOriginEndpoint</a>	Grants permission to create an origin endpoint for a channel	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteChannel</a>	Grants permission to delete a channel in a channel group	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
<a href="#">DeleteChannelGroup</a>	Grants permission to delete a channel group	Write	<a href="#">ChannelGroup*</a>		
<a href="#">DeleteChannelPolicy</a>	Grants permission to delete a resource policy from a channel	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">ChannelPolicy*</a>		
<a href="#">DeleteOriginEndpoint</a>	Grants permission to delete an origin endpoint of a channel	Write	<a href="#">Channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		
<a href="#">DeleteOriginEndpointPolicy</a>	Grants permission to delete a resource policy from an origin endpoint	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		
			<a href="#">OriginEndpointPolicy*</a>		
<a href="#">GetChannel</a>	Grants permission to retrieve details of a channel in a channel group	Read	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
<a href="#">GetChannelGroup</a>	Grants permission to retrieve details of a channel group	Read	<a href="#">ChannelGroup*</a>		
<a href="#">GetChannelPolicy</a>	Grants permission to retrieve a resource policy for a channel	Read	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">ChannelPolicy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHarvestJob</a>	Grants permission to retrieve details of an harvest job	Read	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">HarvestJob*</a>		
			<a href="#">OriginEndpoint*</a>		
<a href="#">GetHeadObject</a>	Grants permission to make GetHeadObject requests to MediaPackage	Read	<a href="#">OriginEndpoint*</a>		
<a href="#">GetObject</a>	Grants permission to make GetObject requests to MediaPackage	Read	<a href="#">OriginEndpoint*</a>		
<a href="#">GetOriginEndpoint</a>	Grants permission to retrieve details of an origin endpoint	Read	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		
<a href="#">GetOriginEndpointPolicy</a>	Grants permission to retrieve details of a resource policy for an origin endpoint	Read	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">OriginEndpointPolicy*</a>		
<a href="#">HarvestObject</a>	Grants permission to make HarvestObject requests to MediaPackage	Read	<a href="#">OriginEndpoint*</a>		
<a href="#">ListChannelGroups</a>	Grants permission to list all channel groups for an aws account	List			
<a href="#">ListChannels</a>	Grants permission to list all channels in a channel group	List	<a href="#">ChannelGroup*</a>		
<a href="#">ListHarvestJobs</a>	Grants permission to list all harvest jobs in a channel group, channel, origin endpoint	List	<a href="#">ChannelGroup*</a>		
<a href="#">ListOriginEndpoints</a>	Grants permission to list all origin endpoints of a channel	List	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for the specified resource	Read	<a href="#">Channel</a>		
			<a href="#">ChannelGroup</a>		
			<a href="#">HarvestJob</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">OriginEndpoint</a>		
<a href="#">PutChannelPolicy</a>	Grants permission to attach a resource policy for a channel	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">ChannelPolicy*</a>		
<a href="#">PutObject</a>	Grants permission to make PutObject requests to MediaPackage	Write	<a href="#">Channel*</a>		
<a href="#">PutOriginEndpointPolicy</a>	Grants permission to attach a resource policy to an origin endpoint	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		
			<a href="#">OriginEndpointPolicy*</a>		
<a href="#">ResetChannelState</a>	Grants permission to reset a channel	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
<a href="#">ResetOriginEndpointState</a>	Grants permission to reset an origin endpoint	Write	<a href="#">Channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		
<a href="#">TagResource</a>	Grants permission to add specified tags to the specified resource	Tagging	<a href="#">Channel</a>		
			<a href="#">ChannelGroup</a>		
			<a href="#">HarvestJob</a>		
			<a href="#">OriginEndpoint</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the specified resource	Tagging	<a href="#">Channel</a>		
			<a href="#">ChannelGroup</a>		
			<a href="#">HarvestJob</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">OriginEndpoint</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateChannel</a>	Grants permission to update a channel in a channel group	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
<a href="#">UpdateChannelGroup</a>	Grants permission to update a channel group	Write	<a href="#">ChannelGroup*</a>		
<a href="#">UpdateOriginEndpoint</a>	Grants permission to update an origin endpoint of a channel	Write	<a href="#">Channel*</a>		
			<a href="#">ChannelGroup*</a>		
			<a href="#">OriginEndpoint*</a>		

## Resource types defined by AWS Elemental MediaPackage V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">ChannelGroup</a>	arn:\${Partition}:mediapackagev2:\${Region}:\${Account}:channelGroup/\${ChannelGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ChannelPolicy</a>	arn:\${Partition}:mediapackagev2:\${Region}:\${Account}:channelGroup/\${ChannelGroupName}/channel/\${ChannelName}	
<a href="#">Channel</a>	arn:\${Partition}:mediapackagev2:\${Region}:\${Account}:channelGroup/\${ChannelGroupName}/channel/\${ChannelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">OriginEndpointPolicy</a>	arn:\${Partition}:mediapackagev2:\${Region}:\${Account}:channelGroup/\${ChannelGroupName}/channel/\${ChannelName}/originEndpoint/\${OriginEndpointName}	
<a href="#">OriginEndpoint</a>	arn:\${Partition}:mediapackagev2:\${Region}:\${Account}:channelGroup/\${ChannelGroupName}/channel/\${ChannelName}/originEndpoint/\${OriginEndpointName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">HarvestJob</a>	arn:\${Partition}:mediapackagev2:\${Region}:\${Account}:channelGroup/\${ChannelGroupName}/channel/\${ChannelName}/originEndpoint/\${OriginEndpointName}/harvestJob/\${HarvestJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental MediaPackage V2

AWS Elemental MediaPackage V2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions

under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental MediaPackage VOD

AWS Elemental MediaPackage VOD (service prefix: `mediapackage-vod`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental MediaPackage VOD](#)
- [Resource types defined by AWS Elemental MediaPackage VOD](#)
- [Condition keys for AWS Elemental MediaPackage VOD](#)

## Actions defined by AWS Elemental MediaPackage VOD

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Configure Logs</a>	Grants permission to configure egress access logs for a PackagingGroup	Write	<a href="#">packaging-groups*</a>		iam:CreateServiceLinkedRole
<a href="#">CreateAsset</a>	Grants permission to create an asset in AWS Elemental MediaPackage	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePackagingConfiguration</a>	Grants permission to create a packaging configuration in AWS Elemental MediaPackage	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePackagingGroup</a>	Grants permission to create a packaging group in AWS Elemental MediaPackage	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAsset</a>	Grants permission to delete an asset in AWS Elemental MediaPackage	Write	<a href="#">assets*</a>		
<a href="#">DeletePackagingConfiguration</a>	Grants permission to delete a packaging configuration in AWS Elemental MediaPackage	Write	<a href="#">packaging-configurations*</a>		
<a href="#">DeletePackagingGroup</a>	Grants permission to delete a packaging group in AWS Elemental MediaPackage	Write	<a href="#">packaging-groups*</a>		
<a href="#">DescribeAsset</a>	Grants permission to view the details of an asset in AWS Elemental MediaPackage	Read	<a href="#">assets*</a>		
<a href="#">DescribePackagingConfiguration</a>	Grants permission to view the details of a packaging configuration in AWS Elemental MediaPackage	Read	<a href="#">packaging-configurations*</a>		
<a href="#">DescribePackagingGroup</a>	Grants permission to view the details of a packaging group in AWS Elemental MediaPackage	Read	<a href="#">packaging-groups*</a>		
<a href="#">ListAssets</a>	Grants permission to view a list of assets in AWS Elemental MediaPackage	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPackagingConfigurations</a>	Grants permission to view a list of packaging configurations in AWS Elemental MediaPackage	List			
<a href="#">ListPackagingGroups</a>	Grants permission to view a list of packaging groups in AWS Elemental MediaPackage	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags assigned to a Packaging Group, PackagingConfiguration, or Asset	Read	<a href="#">assets</a>		
			<a href="#">packaging-configurations</a>		
			<a href="#">packaging-groups</a>		
<a href="#">TagResource</a>	Grants permission to assign tags to a PackagingGroup, PackagingConfiguration, or Asset	Tagging	<a href="#">assets</a>		
			<a href="#">packaging-configurations</a>		
			<a href="#">packaging-groups</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
	<a href="#">aws:TagKeys</a>				

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to delete tags from a PackagingGroup, PackagingConfiguration, or Asset	Tagging	<a href="#">assets</a>		
			<a href="#">packaging-configurations</a>		
			<a href="#">packaging-groups</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdatePackagingGroup</a>	Grants permission to update a packaging group in AWS Elemental MediaPackage	Write	<a href="#">packaging-groups*</a>		

## Resource types defined by AWS Elemental MediaPackage VOD

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">assets</a>	arn:\${Partition}:mediapackage-vod:\${Region}:\${Account}:assets/\${AssetIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">packaging-configurations</a>	arn:\${Partition}:mediapackage-vod:\${Region}:\${Account}:packaging-configurations/\${PackagingConfigurationIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">packaging-groups</a>	arn:\${Partition}:mediapackage-vod:\${Region}:\${Account}:packaging-groups/\${PackagingGroupIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental MediaPackage VOD

AWS Elemental MediaPackage VOD defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString



## Actions, resources, and condition keys for AWS Elemental MediaStore

AWS Elemental MediaStore (service prefix: `mediastore`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental MediaStore](#)
- [Resource types defined by AWS Elemental MediaStore](#)
- [Condition keys for AWS Elemental MediaStore](#)

## Actions defined by AWS Elemental MediaStore

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateContainer</a>	Grants permission to create a container	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteContainer</a>	Grants permission to delete a container	Write	<a href="#">container*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteContainerPolicy</a>	Grants permission to delete the access policy of a container	Permissions management	<a href="#">container</a> *		
<a href="#">DeleteCorsPolicy</a>	Grants permission to delete the CORS policy from a container	Write	<a href="#">container</a> *		
<a href="#">DeleteLifecyclePolicy</a>	Grants permission to delete the lifecycle policy from a container	Write	<a href="#">container</a> *		
<a href="#">DeleteMetricPolicy</a>	Grants permission to delete the metric policy from a container	Write	<a href="#">container</a> *		
<a href="#">DeleteObject</a>	Grants permission to delete an object	Write	<a href="#">object</a> *		
<a href="#">DescribeContainer</a>	Grants permission to retrieve details on a container	List	<a href="#">container</a> *		
<a href="#">DescribeObject</a>	Grants permission to retrieve metadata for an object	List	<a href="#">object</a> *		
<a href="#">GetContainerPolicy</a>	Grants permission to retrieve the access policy of a container	Read	<a href="#">container</a> *		
<a href="#">GetCorsPolicy</a>	Grants permission to retrieve the CORS policy of a container	Read	<a href="#">container</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLifecyclePolicy</a>	Grants permission to retrieve the lifecycle policy that is assigned to a container	Read	<a href="#">container</a> * -		
<a href="#">GetMetricPolicy</a>	Grants permission to retrieve the metric policy that is assigned to a container	Read	<a href="#">container</a> * -		
<a href="#">GetObject</a>	Grants permission to retrieve an object	Read	<a href="#">object*</a>		
<a href="#">ListContainers</a>	Grants permission to retrieve a list of containers in the current account	List			
<a href="#">ListItems</a>	Grants permission to retrieve a list of objects and subfolders that are stored in a folder	List	<a href="#">folder</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags on a container	Read	<a href="#">container</a>		
<a href="#">PutContainerPolicy</a>	Grants permission to create or replace the access policy of a container	Permissions management	<a href="#">container</a> * -		
<a href="#">PutCorsPolicy</a>	Grants permission to add or modify the CORS policy of a container	Write	<a href="#">container</a> * -		
<a href="#">PutLifecyclePolicy</a>	Grants permission to add or modify the lifecycle policy that is assigned to a container	Write	<a href="#">container</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutMetricPolicy</a>	Grants permission to add or modify the metric policy that is assigned to a container	Write	<a href="#">container</a> *		
<a href="#">PutObject</a>	Grants permission to upload an object	Write	<a href="#">object*</a>		
<a href="#">StartAccessLogging</a>	Grants permission to start access logging on a container	Write	<a href="#">container</a> *		iam:PassRole
<a href="#">StopAccessLogging</a>	Grants permission to stop access logging on a container	Write	<a href="#">container</a> *		
<a href="#">TagResource</a>	Grants permission to add tags to a container	Tagging	<a href="#">container</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a container	Tagging	<a href="#">container</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Elemental MediaStore

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">container</a>	arn:\${Partition}:mediastore:\${Region}:\${Account}:container/\${ContainerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">object</a>	arn:\${Partition}:mediastore:\${Region}:\${Account}:container/\${ContainerName}/\${ObjectPath}	
<a href="#">folder</a>	arn:\${Partition}:mediastore:\${Region}:\${Account}:container/\${ContainerName}/\${FolderPath}	

## Condition keys for AWS Elemental MediaStore

AWS Elemental MediaStore defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental MediaTailor

AWS Elemental MediaTailor (service prefix: `mediatailor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental MediaTailor](#)
- [Resource types defined by AWS Elemental MediaTailor](#)
- [Condition keys for AWS Elemental MediaTailor](#)

## Actions defined by AWS Elemental MediaTailor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Configure LogsForChannel</a>	Grants permission to configure logs on the channel with the specified channel name	Write	<a href="#">channel*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ConfigureLogsForPlaybackConfiguration</a>	Grants permission to configure logs for a playback configuration	Write	<a href="#">playbackConfiguration*</a>		iam:CreateServiceLinkedRole
<a href="#">CreateChannel</a>	Grants permission to create a new channel	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLiveSource</a>	Grants permission to create a new live source on the source location with the specified source location name	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePrefetchSchedule</a>	Grants permission to create a prefetch schedule for the playback configuration with the specified playback configuration name	Write	<a href="#">playbackConfiguration*</a>		
<a href="#">CreateProgram</a>	Grants permission to create a new program on the channel with the specified channel name	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSourceLocation</a>	Grants permission to create a new source location	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateVodSource</a>	Grants permission to create a new VOD source on the source location with the specified source location name	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteChannel</a>	Grants permission to delete the channel with the specified channel name	Write	<a href="#">channel*</a>		
<a href="#">DeleteChannelPolicy</a>	Grants permission to delete the IAM policy on the channel with the specified channel name	Permissions management	<a href="#">channel*</a>		
<a href="#">DeleteLiveSource</a>	Grants permission to delete the live source with the specified live source name on the source location with the specified source location name	Write	<a href="#">liveSource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePlaybackConfiguration</a>	Grants permission to delete the specified playback configuration	Write	<a href="#">playbackConfiguration*</a>		
<a href="#">DeletePrefetchSchedule</a>	Grants permission to delete a prefetch schedule for a playback configuration with the specified prefetch schedule name	Write	<a href="#">playbackConfiguration*</a> <a href="#">prefetchSchedule*</a>		
<a href="#">DeleteProgram</a>	Grants permission to delete the program with the specified program name on the channel with the specified channel name	Write	<a href="#">program*</a>		
<a href="#">DeleteSourceLocation</a>	Grants permission to delete the source location with the specified source location name	Write	<a href="#">sourceLocation*</a>		
<a href="#">DeleteVodSource</a>	Grants permission to delete the VOD source with the specified VOD source name on the source location with the specified source location name	Write	<a href="#">vodSource*</a>		
<a href="#">DescribeChannel</a>	Grants permission to retrieve the channel with the specified channel name	Read	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeLiveSource</a>	Grants permission to retrieve the live source with the specified live source name on the source location with the specified source location name	Read	<a href="#">liveSource*</a>		
<a href="#">DescribeProgram</a>	Grants permission to retrieve the program with the specified program name on the channel with the specified channel name	Read	<a href="#">program*</a>		
<a href="#">DescribeSourceLocation</a>	Grants permission to retrieve the source location with the specified source location name	Read	<a href="#">sourceLocation*</a>		
<a href="#">DescribeVodSource</a>	Grants permission to retrieve the VOD source with the specified VOD source name on the source location with the specified source location name	Read	<a href="#">vodSource*</a>		
<a href="#">GetChannelPolicy</a>	Grants permission to read the IAM policy on the channel with the specified channel name	Read	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetChannelSchedule</a>	Grants permission to retrieve the schedule of programs on the channel with the specified channel name	Read	<a href="#">channel*</a>		
<a href="#">GetPlaybackConfiguration</a>	Grants permission to retrieve the configuration for the specified name	Read	<a href="#">playbackConfiguration*</a>		
<a href="#">GetPrefetchSchedule</a>	Grants permission to retrieve prefetch schedule for a playback configuration with the specified prefetch schedule name	Read	<a href="#">playbackConfiguration*</a> <a href="#">prefetchSchedule*</a>		
<a href="#">ListAlerts</a>	Grants permission to retrieve the list of alerts on a resource	Read			
<a href="#">ListChannels</a>	Grants permission to retrieve the list of existing channels	Read			
<a href="#">ListLiveSources</a>	Grants permission to retrieve the list of existing live sources on the source location with the specified source location name	Read			
<a href="#">ListPlaybackConfigurations</a>	Grants permission to retrieve the list of available configurations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPrefetchSchedules</a>	Grants permission to retrieve the list of prefetch schedules for a playback configuration	List	<a href="#">playbackConfiguration*</a>		
<a href="#">ListSourceLocations</a>	Grants permission to retrieve the list of existing source locations	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags assigned to the specified playback configuration resource	Read	<a href="#">channel</a>		
			<a href="#">liveSource</a>		
			<a href="#">playbackConfiguration</a>		
			<a href="#">sourceLocation</a>		
			<a href="#">vodSource</a>		
<a href="#">ListVodSources</a>	Grants permission to retrieve the list of existing VOD sources on the source location with the specified source location name	Read			
<a href="#">PutChannelPolicy</a>	Grants permission to set the IAM policy on the channel with the specified channel name	Permissions management	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutPlaybackConfiguration</a>	Grants permission to add a new configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartChannel</a>	Grants permission to start the channel with the specified channel name	Write	<a href="#">channel*</a>		
<a href="#">StopChannel</a>	Grants permission to stop the channel with the specified channel name	Write	<a href="#">channel*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the specified playback configuration resource	Tagging	<a href="#">channel</a>		
			<a href="#">liveSource</a>		
			<a href="#">playbackConfiguration</a>		
			<a href="#">sourceLocation</a>		
			<a href="#">vodSource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified playback configuration resource	Tagging	<a href="#">channel</a> <a href="#">liveSource</a> <a href="#">playbackConfiguration</a> <a href="#">sourceLocation</a> <a href="#">vodSource</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateChannel</a>	Grants permission to update the channel with the specified channel name	Write	<a href="#">channel*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLiveSource</a>	Grants permission to update the live source with the specified live source name on the source location with the specified source location name	Write	<a href="#">liveSource*</a>		
<a href="#">UpdateProgram</a>	Grants permission to update the program with the specified program name on the channel with the specified channel name	Write	<a href="#">program*</a>		
<a href="#">UpdateSourceLocation</a>	Grants permission to update the source location with the specified source location name	Write	<a href="#">sourceLocation*</a>		
<a href="#">UpdateVodSource</a>	Grants permission to update the VOD source with the specified VOD source name on the source location with the specified source location name	Write	<a href="#">vodSource*</a>		

## Resource types defined by AWS Elemental MediaTailor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">playbackConfiguration</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:playbackConfiguration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">prefetchSchedule</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:prefetchSchedule/\${ResourceId}	
<a href="#">channel</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:channel/\${ChannelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">program</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:program/\${ChannelName}/\${ProgramName}	
<a href="#">sourceLocation</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:sourceLocation/\${SourceLocationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vodSource</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:vodSource/\${SourceLocationName}/\${VodSourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">liveSource</a>	arn:\${Partition}:mediatailor:\${Region}:\${Account}:liveSource/\${SourceLocationName}/\${LiveSourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental MediaTailor

AWS Elemental MediaTailor defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental Support Cases

AWS Elemental Support Cases (service prefix: `elemental-support-cases`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Elemental Support Cases](#)
- [Resource types defined by AWS Elemental Support Cases](#)
- [Condition keys for AWS Elemental Support Cases](#)

## Actions defined by AWS Elemental Support Cases

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddCaseComment</a> [permission only]	Grants permission to add a comment to a support case	Write	<a href="#">case*</a>		
<a href="#">CheckCasePermission</a> [permission only]	Grants permission to verify whether the caller has the permissions to perform support case operations	Write			
<a href="#">CompleteMultipartUpload</a> [permission only]	Grants permission to complete a multipart file upload to a support case	Write	<a href="#">case*</a>		
<a href="#">CreateCase</a> [permission only]	Grants permission to create a support case	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateS3CLIUploadCommand</a> [permission only]	Grants permission to create a cli command to allow a file upload to a support case	Write	<a href="#">case*</a>		
<a href="#">CreateS3DownloadUrl</a>	Grants permission to download a file from a support case	Write	<a href="#">case*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">GetCase</a> [permission only]	Grants permission to describe a support case in your account	Read	<a href="#">case*</a>		
<a href="#">GetCasePermission</a> [permission only]	Grants permission to verify whether the caller has the permissions to perform support case operations	Read			
<a href="#">GetCases</a> [permission only]	Grants permission to list the support cases in your account	Read			
<a href="#">GetUICache</a> [permission only]	Grants permission to retrieve cached case user data for use in the Console	Read			
<a href="#">ListTagsForCase</a> [permission only]	Grants permission to list tags on a support case	Read	<a href="#">case*</a>		
<a href="#">StartMultiPartUpload</a> [permission only]	Grants permission to start a multipart file upload to a support case	Write	<a href="#">case*</a>		
<a href="#">TagCase</a> [permission only]	Grants permission to add a tag on a support case	Tagging	<a href="#">case*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagCase</a> [permission only]	Grants permission to remove a tag on a support case	Tagging	<a href="#">case*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCase</a> [permission only]	Grants permission to update a support case	Write	<a href="#">case*</a>		
<a href="#">UpdateCaseStatus</a> [permission only]	Grants permission to update a support case status	Write	<a href="#">case*</a>		
<a href="#">UpdateMultipartUpload</a> [permission only]	Grants permission to update a multipart file upload to a support case	Write	<a href="#">case*</a>		

## Resource types defined by AWS Elemental Support Cases

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">case</a>	arn:\${Partition}:elemental-support-cases::\${Account}:case/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Elemental Support Cases

AWS Elemental Support Cases defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Elemental Support Content

AWS Elemental Support Content (service prefix: `elemental-support-content`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.



## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Elemental Support Content](#)
- [Resource types defined by AWS Elemental Support Content](#)
- [Condition keys for AWS Elemental Support Content](#)

## Actions defined by AWS Elemental Support Content

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Query</a> [permission only]	Grants permission to search support content	Read			

## Resource types defined by AWS Elemental Support Content

AWS Elemental Support Content does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Elemental Support Content, specify "Resource": "\*" in your policy.

## Condition keys for AWS Elemental Support Content

Elemental Support Content has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon EMR on EKS (EMR Containers)

Amazon EMR on EKS (EMR Containers) (service prefix: `emr-containers`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EMR on EKS \(EMR Containers\)](#)
- [Resource types defined by Amazon EMR on EKS \(EMR Containers\)](#)
- [Condition keys for Amazon EMR on EKS \(EMR Containers\)](#)

## Actions defined by Amazon EMR on EKS (EMR Containers)

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelJobRun</a>	Grants permission to cancel a job run	Write	<a href="#">jobRun*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCertificate</a>	Grants permission to call the CreateCertificate method to accept the CertificateSigning Request, and return the signed certificate	Write			
<a href="#">CreateJobTemplate</a>	Grants permission to create a job template	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateManagedEndpoint</a>	Grants permission to create a managed endpoint	Write	<a href="#">virtualCluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">emr-containers:ExecutionRoleArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSecurityConfiguration</a>	Grants permission to create a security configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateVirtualCluster</a>	Grants permission to create a virtual cluster	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteJobTemplate</a>	Grants permission to delete a job template	Write	<a href="#">jobTemplate*</a>		
<a href="#">DeleteManagedEndpoint</a>	Grants permission to delete a managed endpoint	Write	<a href="#">managedEndpoint*</a>		
<a href="#">DeleteSecurityConfiguration</a>	Grants permission to delete a security configuration	Write	<a href="#">securityConfiguration*</a>		
<a href="#">DeleteVirtualCluster</a>	Grants permission to delete a virtual cluster	Write	<a href="#">virtualCluster*</a>		
<a href="#">DescribeJobRun</a>	Grants permission to describe a job run	Read	<a href="#">jobRun*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeJobTemplate</a>	Grants permission to describe a job template	Read	<a href="#">jobTemplate*</a>		
<a href="#">DescribeManagedEndpoint</a>	Grants permission to describe a managed endpoint	Read	<a href="#">managedEndpoint*</a>		
<a href="#">DescribeSecurityConfiguration</a>	Grants permission to describe a security configuration	Read	<a href="#">securityConfiguration*</a>		
<a href="#">DescribeVirtualCluster</a>	Grants permission to describe a virtual cluster	Read	<a href="#">virtualCluster*</a>		
<a href="#">GetManagedEndpointSessionCredentials</a>	Grants permission to generate a session token used to connect to a managed endpoint	Write	<a href="#">managedEndpoint*</a>		
<a href="#">ListJobRuns</a>	Grants permission to list job runs associated with a virtual cluster	List	<a href="#">virtualCluster*</a>		
<a href="#">ListJobTemplates</a>	Grants permission to list job templates	List			
<a href="#">ListManagedEndpoints</a>	Grants permission to list managed endpoints associated with a virtual cluster	List	<a href="#">virtualCluster*</a>		
<a href="#">ListSecurityConfigurations</a>	Grants permission to list security configurations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for the specified resource	List	<a href="#">jobRun</a>		
			<a href="#">jobTemplate</a>		
			<a href="#">managedEndpoint</a>		
			<a href="#">securityConfiguration</a>		
			<a href="#">virtualCluster</a>		
<a href="#">ListVirtualClusters</a>	Grants permission to list virtual clusters	List			
<a href="#">StartJobRun</a>	Grants permission to start a job run	Write	<a href="#">virtualCluster*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">emr-containers:ExecutionRoleArn</a> <a href="#">emr-containers:JobTemplateArn</a>	
<a href="#">TagResource</a>	Grants permission to tag the specified resource	Tagging	<a href="#">jobRun</a> <a href="#">jobTemplate</a> <a href="#">managedEndpoint</a> <a href="#">securityConfiguration</a> <a href="#">virtualCluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag the specified resource	Tagging	<a href="#">jobRun</a> <a href="#">jobTemplate</a> <a href="#">managedEndpoint</a> <a href="#">securityConfiguration</a> <a href="#">virtualCluster</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon EMR on EKS (EMR Containers)

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">virtualCluster</a>	arn:\${Partition}:emr-containers:\${Region}:\${Account}:/virtualclusters/\${VirtualClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">jobRun</a>	arn:\${Partition}:emr-containers:\${Region}:\${Account}:/virtualclusters/\${VirtualClusterId}/jobruns/\${JobRunId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">jobTemplate</a>	arn:\${Partition}:emr-containers:\${Region}:\${Account}:/jobtemplates/\${JobTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">managedEndpoint</a>	arn:\${Partition}:emr-containers:\${Region}:\${Account}:/virtualclusters/\${VirtualClusterId}/endpoints/\${EndpointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">securityConfiguration</a>	arn:\${Partition}:emr-containers:\${Region}:\${Account}:/securityconfigurations/\${SecurityConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EMR on EKS (EMR Containers)

Amazon EMR on EKS (EMR Containers) defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs present in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys present in the request	ArrayOfString
<a href="#">emr-containers:ExecutionRoleArn</a>	Filters access by the execution role arn present in the request	ARN
<a href="#">emr-containers:JobTemplateArn</a>	Filters access by the job template arn present in the request	ARN

## Actions, resources, and condition keys for Amazon EMR Serverless

Amazon EMR Serverless (service prefix: `emr-serverless`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EMR Serverless](#)
- [Resource types defined by Amazon EMR Serverless](#)
- [Condition keys for Amazon EMR Serverless](#)

## Actions defined by Amazon EMR Serverless

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AccessInteractiveEndpoints</a> [permission only]	Grants permission to execute interactive workloads on an application	Write	<a href="#">application*</a>		iam:PassRole
<a href="#">AccessLivyEndpoints</a> [permission only]	Grants permission to execute interactive workloads on Livy Endpoint enabled on an EMR Serverless Application	Write	<a href="#">application*</a>		iam:PassRole
<a href="#">AccessSystemProfileLogs</a> [permission only]	Grants permission to access system profile logs	Write	<a href="#">jobRun*</a>		
<a href="#">CancelJobRun</a>	Grants permission to cancel a job run	Write	<a href="#">jobRun*</a>		
<a href="#">CreateApplication</a>	Grants permission to create an Application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">application*</a>		
<a href="#">GetApplication</a>	Grants permission to get application	Read	<a href="#">application*</a>		
<a href="#">GetDashboardForJobRun</a>	Grants permission to get job run dashboard	Read	<a href="#">jobRun*</a>		
<a href="#">GetJobRun</a>	Grants permission to get a job run	Read	<a href="#">jobRun*</a>		
<a href="#">ListApplications</a>	Grants permission to list applications	List			
<a href="#">ListJobRunAttempts</a>	Grants permission to list job run attempts associated with a job run	List	<a href="#">jobRun*</a>		
<a href="#">ListJobRuns</a>	Grants permission to list job runs associated with an application	List	<a href="#">application*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for the specified resource	Read	<a href="#">application</a> <a href="#">jobRun</a>		
<a href="#">StartApplication</a>	Grants permission to Start an application	Write	<a href="#">application*</a>		
<a href="#">StartJobRun</a>	Grants permission to start a job run	Write	<a href="#">application*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopApplication</a>	Grants permission to Stop an application	Write	<a href="#">application*</a>		
<a href="#">TagResource</a>	Grants permission to tag the specified resource	Tagging	<a href="#">application</a>		
			<a href="#">jobRun</a>		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">UntagResource</a>	Grants permission to untag the specified resource	Tagging	<a href="#">application</a>		
			<a href="#">jobRun</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to Update an application	Write	<a href="#">application*</a>		



## Resource types defined by Amazon EMR Serverless

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:emr-serverless:\${Region}:\${Account}:/applications/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">jobRun</a>	arn:\${Partition}:emr-serverless:\${Region}:\${Account}:/applications/\${ApplicationId}/jobruns/\${JobRunId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EMR Serverless

Amazon EMR Serverless defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS End User Messaging SMS and Voice V2

AWS End User Messaging SMS and Voice V2 (service prefix: `sms-voice`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS End User Messaging SMS and Voice V2](#)
- [Resource types defined by AWS End User Messaging SMS and Voice V2](#)
- [Condition keys for AWS End User Messaging SMS and Voice V2](#)

## Actions defined by AWS End User Messaging SMS and Voice V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate OriginatorIdentity</a>	Grants permission to associate an origination phone number or sender ID to a pool	Write	<a href="#">Pool*</a> <a href="#">PhoneNumber</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">SenderId</a>		
<a href="#">AssociateProtectConfiguration</a>	Grants permission to associate a protect configuration to a configuration set	Write	<a href="#">ConfigurationSet*</a>		
			<a href="#">ProtectConfiguration*</a>		
<a href="#">CreateConfigurationSet</a>	Grants permission to create a configuration set	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">CreateEventDestination</a>	Grants permission to create an event destination within a configuration set	Write	<a href="#">ConfigurationSet*</a>		iam:PassRole
<a href="#">CreateOptOutList</a>	Grants permission to create an opt-out list	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">CreatePool</a>	Grants permission to create a pool	Write	<a href="#">PhoneNumber</a>		sms-voice:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">SenderId</a>		
<a href="#">CreateProtectConfiguration</a>	Grants permission to create a protect configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">CreateRegistration</a>	Grants permission to create a registration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">CreateRegistrationAssociation</a>	Grants permission to associate a registration with a phone number or another registration	Write	<a href="#">Registration*</a> <a href="#">PhoneNumber</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRegistrationAttachment</a>	Grants permission to create a registration attachment	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">CreateRegistrationVersion</a>	Grants permission to create a registration version	Write	<a href="#">Registration*</a>		
<a href="#">CreateVerifiedDestinationNumber</a>	Grants permission to create a verified destination number	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">DeleteAccountDefaultProtectConfiguration</a>	Grants permission to delete the account default protect configuration	Write			
<a href="#">DeleteConfigurationSet</a>	Grants permission to delete a configuration set	Write	<a href="#">ConfigurationSet*</a>		
<a href="#">DeleteDefaultMessageType</a>	Grants permission to delete the default message type for a configuration set	Write	<a href="#">ConfigurationSet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDefaultSenderId</a>	Grants permission to delete the default sender ID for a configuration set	Write	<a href="#">ConfigurationSet*</a>		
<a href="#">DeleteEventDestination</a>	Grants permission to delete an event destination within a configuration set	Write	<a href="#">ConfigurationSet*</a>		
<a href="#">DeleteKeyword</a>	Grants permission to delete a keyword for a pool or origination phone number	Write	<a href="#">PhoneNumber</a> <a href="#">Pool</a>		
<a href="#">DeleteMediaMessageSpendLimitOverride</a>	Grants permission to delete an override for your account's media messaging monthly spend limit	Write			
<a href="#">DeleteOptOutList</a>	Grants permission to delete an opt-out list	Write	<a href="#">OptOutList*</a>		
<a href="#">DeleteOptedOutNumber</a>	Grants permission to delete a destination phone number from an opt-out list	Write	<a href="#">OptOutList*</a>		
<a href="#">DeletePool</a>	Grants permission to delete a pool	Write	<a href="#">Pool*</a>		
<a href="#">DeleteProtectConfiguration</a>	Grants permission to delete a protect configuration	Write	<a href="#">ProtectConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProtectConfigurationRuleSetNumberOverride</a>	Grants permission to delete a phone number override for a protect configuration	Write	<a href="#">ProtectConfiguration*</a>		
<a href="#">DeleteRegistration</a>	Grants permission to delete a registration	Write	<a href="#">Registration*</a>		
<a href="#">DeleteRegistrationAttachment</a>	Grants permission to delete a registration attachment	Write	<a href="#">RegistrationAttachment*</a>		
<a href="#">DeleteRegistrationFieldValue</a>	Grants permission to delete an optional registration field value	Write	<a href="#">Registration*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy	Permissions management	<a href="#">OptOutList</a> <a href="#">PhoneNumber</a> <a href="#">Pool</a> <a href="#">SenderId</a>		
<a href="#">DeleteTextMessageSpendLimitOverride</a>	Grants permission to delete an override for your account's text messaging monthly spend limit	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVerifiedDestinationNumber</a>	Grants permission to delete a verified destination number	Write	<a href="#">VerifiedDestinationNumber*</a>		
<a href="#">DeleteVoiceMessageSpendLimitOverride</a>	Grants permission to delete an override for your account's voice messaging monthly spend limit	Write			
<a href="#">DescribeAccountAttributes</a>	Grants permission to describe the attributes of your account	Read			
<a href="#">DescribeAccountLimits</a>	Grants permission to describe the service quotas for your account	Read			
<a href="#">DescribeConfigurationSets</a>	Grants permission to describe the configuration sets in your account	Read	<a href="#">ConfigurationSet</a>		
<a href="#">DescribeKeywords</a>	Grants permission to describe the keywords for a pool or origination phone number	Read	<a href="#">PhoneNumber</a> <a href="#">Pool</a>		
<a href="#">DescribeOptOutLists</a>	Grants permission to describe the opt-out lists in your account	Read	<a href="#">OptOutList</a>		
<a href="#">DescribeOptedOutNumbers</a>	Grants permission to describe the destination phone numbers in an opt-out list	Read	<a href="#">OptOutList*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePhoneNumbers</a>	Grants permission to describe the origination phone numbers in your account	Read	<a href="#">PhoneNumber</a>		
<a href="#">DescribePools</a>	Grants permission to describe the pools in your account	Read	<a href="#">Pool</a>		
<a href="#">DescribeProtectConfigurations</a>	Grants permission to describe the protect configurations in your account	Read	<a href="#">ProtectConfiguration</a>		
<a href="#">DescribeRegistrationAttachments</a>	Grants permission to describe the registration attachments in your account	Read	<a href="#">RegistrationAttachment</a>		
<a href="#">DescribeRegistrationFieldDefinitions</a>	Grants permission to describe the field definitions for a given registration type	Read			
<a href="#">DescribeRegistrationFieldValues</a>	Grants permission to describe the field values for a given registration	Read	<a href="#">Registration*</a>		
<a href="#">DescribeRegistrationSectionDefinitions</a>	Grants permission to describe the section definitions for a given registration type	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRegistrationTypeDefinitions</a>	Grants permission to describe the registration types supported by the service	Read			
<a href="#">DescribeRegistrationVersions</a>	Grants permission to describe the versions for a given registration	Read	<a href="#">Registration*</a>		
<a href="#">DescribeRegistrations</a>	Grants permission to describe the registrations in your account	Read	<a href="#">Registration</a>		
<a href="#">DescribeSenderIds</a>	Grants permission to describe the sender IDs in your account	Read	<a href="#">SenderId</a>		
<a href="#">DescribeSpendLimits</a>	Grants permission to describe the monthly spend limits for your account	Read			
<a href="#">DescribeVerifiedDestinationNumbers</a>	Grants permission to describe the verified destination numbers in your account	Read	<a href="#">VerifiedDestinationNumber</a>		
<a href="#">DisassociateOriginationIdentity</a>	Grants permission to disassociate an origination phone number or sender ID from a pool	Write	<a href="#">Pool*</a>		
			<a href="#">PhoneNumber</a>		
			<a href="#">SenderId</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateProtectConfiguration</a>	Grants permission to disassociate a protect configuration from a configuration set	Write	<a href="#">ConfigurationSet*</a>		
			<a href="#">ProtectConfiguration*</a>		
<a href="#">DiscardRegistrationVersion</a>	Grants permission to discard the latest version of a given registration	Write	<a href="#">Registration*</a>		
<a href="#">GetProtectConfigurationCountryRuleSet</a>	Grants permission to get the country rule set for a protect configuration	Read	<a href="#">ProtectConfiguration*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to get a resource policy	Read	<a href="#">OptOutList</a>		
			<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
			<a href="#">SenderId</a>		
<a href="#">ListPoolOriginationIdentities</a>	Grants permission to list all origination phone numbers and sender IDs associated to a pool	Read	<a href="#">Pool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProtectConfigurationRuleSetNumberOverrides</a>	Grants permission to list all phone number overrides for a protect configuration	Read	<a href="#">ProtectConfiguration*</a>		
<a href="#">ListRegistrationsAsociations</a>	Grants permission to list all resources associated to a registration	Read	<a href="#">Registration*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">ConfigurationSet</a>		
			<a href="#">OptOutList</a>		
			<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
			<a href="#">ProtectConfiguration</a>		
			<a href="#">Registration</a>		
			<a href="#">RegistrationAttachment</a>		
<a href="#">SenderId</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">VerifiedDestinationNumber</a>		
<a href="#">PutKeyword</a>	Grants permission to create or update a keyword for a pool or origination phone number	Write	<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
<a href="#">PutMessageFeedback</a>	Grants permission to put feedback for a text, voice, or media message	Write	<a href="#">Message*</a>		
<a href="#">PutOptOutNumber</a>	Grants permission to put a destination phone number into an opt-out list	Write	<a href="#">OptOutList*</a>		
<a href="#">PutProtectConfigurationRuleSetNumberOverride</a>	Grants permission to put a phone number override for a protect configuration	Write	<a href="#">ProtectConfiguration*</a>		
<a href="#">PutRegistrationFieldValue</a>	Grants permission to put a registration field value	Write	<a href="#">Registration*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to put a resource policy	Permissions management	<a href="#">OptOutList</a>		
			<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">SenderId</a>		
<a href="#">ReleasePhoneNumber</a>	Grants permission to release an origination phone number	Write	<a href="#">PhoneNumber*</a>		
<a href="#">ReleaseSenderId</a>	Grants permission to release a sender ID	Write	<a href="#">SenderId*</a>		
<a href="#">RequestPhoneNumber</a>	Grants permission to request an origination phone number	Write	<a href="#">Pool</a>		sms-voice: :AssociateOriginationIdentity  sms-voice: :TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RequestSenderId</a>	Grants permission to request an unregistered sender ID	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	sms-voice:TagResource
<a href="#">SendDestinationNumberVerificationCode</a>	Grants permission to send a text or voice message containing a verification code to a destination phone number	Write	<a href="#">PhoneNumber</a>		sms-voice:SendMessage
			<a href="#">Pool</a>		sms-voice:SendVoiceMessage
			<a href="#">SenderId</a>		
<a href="#">SendMediaMessage</a>	Grants permission to send a media message to a destination phone number	Write	<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
<a href="#">SendTextMessage</a>	Grants permission to send a text message to a destination phone number	Write	<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
			<a href="#">SenderId</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendVoiceMessage</a>	Grants permission to send a voice message to a destination phone number	Write	<a href="#">PhoneNumber</a> <a href="#">Pool</a>		
<a href="#">SetAccountDefaultProtectConfiguration</a>	Grants permission to set a default protect configuration for the account	Write	<a href="#">ProtectConfiguration*</a>		
<a href="#">SetDefaultMessageFeedbackEnabled</a>	Grants permission to set the default message feedback for a configuration set	Write	<a href="#">ConfigurationSet*</a>		
<a href="#">SetDefaultMessageType</a>	Grants permission to set the default message type for a configuration set	Write	<a href="#">ConfigurationSet*</a>		
<a href="#">SetDefaultSenderId</a>	Grants permission to set the default sender ID for a configuration set	Write	<a href="#">ConfigurationSet*</a>		
<a href="#">SetMediaMessageSpendLimitOverride</a>	Grants permission to set an override for your account's media messaging monthly spend limit	Write			
<a href="#">SetTextMessageSpendLimitOverride</a>	Grants permission to set an override for your account's text messaging monthly spend limit	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetVoiceMessageSpendLimitOverride</a>	Grants permission to set an override for your account's voice messaging monthly spend limit	Write			
<a href="#">SubmitRegistrationVersion</a>	Grants permission to submit the latest version of a given registration	Write	<a href="#">Registration*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">ConfigurationSet</a>		
			<a href="#">OptOutList</a>		
			<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
			<a href="#">ProtectConfiguration</a>		
			<a href="#">Registration</a>		
			<a href="#">RegistrationAttachment</a>		
<a href="#">SenderId</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">VerifiedDestinationNumber</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">ConfigurationSet</a>		
			<a href="#">OptOutList</a>		
			<a href="#">PhoneNumber</a>		
			<a href="#">Pool</a>		
			<a href="#">ProtectConfiguration</a>		
			<a href="#">Registration</a>		
			<a href="#">RegistrationAttachment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">SenderId</a>		
			<a href="#">VerifiedDestinationNumber</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateEventDestination</a>	Grants permission to update an event destination within a configuration set	Write	<a href="#">ConfigurationSet*</a>		iam:PassRole
<a href="#">UpdatePhoneNumber</a>	Grants permission to update an origination phone number's configuration	Write	<a href="#">PhoneNumber*</a>		iam:PassRole
<a href="#">UpdatePool</a>	Grants permission to update a pool's configuration	Write	<a href="#">Pool*</a>		iam:PassRole
<a href="#">UpdateProtectConfiguration</a>	Grants permission to update a protect configuration	Write	<a href="#">ProtectConfiguration*</a>		
<a href="#">UpdateProtectConfigurationCountryRuleSet</a>	Grants permission to update a country rule set for a protect configuration	Write	<a href="#">ProtectConfiguration*</a>		
<a href="#">UpdateSenderId</a>	Grants permission to update a sender ID's configuration	Write	<a href="#">SenderId*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">VerifyDestinationNumber</a>	Grants permission to verify a destination phone number	Write	<a href="#">VerifiedDestinationNumber*</a>		

## Resource types defined by AWS End User Messaging SMS and Voice V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">ConfigurationSet</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:configuration-set/\${ConfigurationSetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">OptOutList</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:opt-out-list/\${OptOutListName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">PhoneNumber</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:phone-number/\${PhoneNumberId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Pool</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:pool/\${PoolId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ProtectConfiguration</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:protect-configuration/\${ProtectConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SenderId</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:sender-id/\${SenderId}/\${IsoCountryCode}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Registration</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:registration/\${RegistrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RegistrationAttachment</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:registration-attachment/\${RegistrationAttachmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VerifiedDestinationNumber</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:verified-destination-number/\${VerifiedDestinationNumberId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Message</a>	arn:\${Partition}:sms-voice:\${Region}:\${Account}:message/\${MessageId}	

## Condition keys for AWS End User Messaging SMS and Voice V2

AWS End User Messaging SMS and Voice V2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS End User Messaging Social

AWS End User Messaging Social (service prefix: `social-messaging`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS End User Messaging Social](#)
- [Resource types defined by AWS End User Messaging Social](#)
- [Condition keys for AWS End User Messaging Social](#)

## Actions defined by AWS End User Messaging Social

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateWhatsAppBusinessAccount</a>	Grants permission to associate a WhatsApp Business Account with your AWS account	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWhatsAppMessageTemplate</a>	Grants permission to create a WhatsApp message template	Write	<a href="#">waba*</a>		
<a href="#">CreateWhatsAppMessageTemplateFromLibrary</a>	Grants permission to create a WhatsApp message template from Meta's template library	Write	<a href="#">waba*</a>		
<a href="#">CreateWhatsAppMessageTemplateMedia</a>	Grants permission to create media for WhatsApp message templates	Write	<a href="#">waba*</a>		
<a href="#">DeleteWhatsAppMessageMedia</a>	Grants permission to delete a media object from WhatsApp	Write	<a href="#">phone-number-id*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWhatsAppMessageTemplate</a>	Grants permission to delete a WhatsApp message template	Write	<a href="#">waba*</a>		
<a href="#">DisassociateWhatsAppBusinessAccount</a>	Grants permission to disassociate a WhatsApp Business Account from your AWS account	Write	<a href="#">waba*</a>		
<a href="#">GetLinkedWhatsAppBusinessAccount</a>	Grants permission to view the details of a WhatsApp Business Account	Read	<a href="#">waba*</a>		
<a href="#">GetLinkedWhatsAppBusinessAccountPhoneNumber</a>	Grants permission to view the details of a phone number	Read	<a href="#">phone-number-id*</a>		
<a href="#">GetWhatsAppMessageMedia</a>	Grants permission to get a media object from WhatsApp	Write	<a href="#">phone-number-id*</a>		
<a href="#">GetWhatsAppMessageTemplate</a>	Grants permission to get details of a WhatsApp message template	Read	<a href="#">waba*</a>		
<a href="#">ListLinkedWhatsAppBusinessAccounts</a>	Grants permission to view all of your WhatsApp Business Accounts	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">phone-number-id</a>		
			<a href="#">waba</a>		
<a href="#">ListWhatsAppMessageTemplates</a>	Grants permission to list WhatsApp message templates	List	<a href="#">waba*</a>		
<a href="#">ListWhatsAppTemplateLibrary</a>	Grants permission to list available templates from Meta's template library	List	<a href="#">waba*</a>		
<a href="#">PostWhatsAppMedia</a>	Grants permission to upload a media object to WhatsApp	Write	<a href="#">phone-number-id*</a>		
<a href="#">PutWhatsAppBusinessAccountEventDestinations</a>	Grants permission to update a WhatsApp Business Accounts event destination	Write	<a href="#">waba*</a>		
<a href="#">SendWhatsAppMessage</a>	Grants permission to send a message through WhatsApp	Write	<a href="#">phone-number-id*</a>		
<a href="#">TagResource</a>	Grants permission to add a tag to a resource	Tagging	<a href="#">phone-number-id</a>		
			<a href="#">waba</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">phone-number-id</a>  <a href="#">waba</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateWhatsAppMessageTemplate</a>	Grants permission to update a WhatsApp message template	Write	<a href="#">waba*</a>		

## Resource types defined by AWS End User Messaging Social

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">phone-number-id</a>	arn:\${Partition}:social-messaging:\${Region}:\${Account}:phone-number-id/\${OriginationPhoneNumberId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">waba</a>	arn:\${Partition}:social-messaging:\${Region}:\${Account}:waba/\${WabaId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS End User Messaging Social

AWS End User Messaging Social defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Entity Resolution

AWS Entity Resolution (service prefix: `entityresolution`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Entity Resolution](#)
- [Resource types defined by AWS Entity Resolution](#)
- [Condition keys for AWS Entity Resolution](#)

## Actions defined by AWS Entity Resolution

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddPolicyStatement</a>	Grants permission to give an AWS service or another account permission to use	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	an AWS Entity Resolution resources				
<a href="#">BatchDeleteUniqueId</a>	Grants permission to batch delete unique Id	Write	<a href="#">MatchingWorkflow*</a>		
<a href="#">CreateIdMappingWorkflow</a>	Grants permission to create a idmapping workflow	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIdNamespace</a>	Grants permission to create a IdNamespace	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMatchingWorkflow</a>	Grants permission to create a matching workflow	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSchemaMapping</a>	Grants permission to create a schema mapping	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteIdMappingWorkflow</a>	Grants permission to delete a idmapping workflow	Write	<a href="#">IdMappingWorkflow*</a>		
<a href="#">DeleteIdNamespace</a>	Grants permission to delete a IdNamespace	Write	<a href="#">IdNamespace*</a>		
<a href="#">DeleteMatchingWorkflow</a>	Grants permission to delete a matching workflow	Write	<a href="#">MatchingWorkflow*</a>		
<a href="#">DeletePolicyStatement</a>	Grants permission to delete permission given to an AWS service or another account permission to use an AWS Entity Resolution resources	Permissions management			
<a href="#">DeleteSchemaMapping</a>	Grants permission to delete a schema mapping	Write	<a href="#">SchemaMapping*</a>		
<a href="#">GenerateMatchId</a>	Grants permission to generate match Id	Write	<a href="#">MatchingWorkflow*</a>		
<a href="#">GetIdMappingJob</a>	Grants permission to get a idmapping job	Read	<a href="#">IdMappingWorkflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdMappingWorkflow</a>	Grants permission to get a idmapping workflow	Read	<a href="#">IdMappingWorkflow*</a>		
<a href="#">GetIdNamespace</a>	Grants permission to get a IdNamespace	Read	<a href="#">IdNamespace*</a>		
<a href="#">GetMatchId</a>	Grants permission to get match Id	Read	<a href="#">MatchingWorkflow*</a>		
<a href="#">GetMatchingJob</a>	Grants permission to get a matching job	Read	<a href="#">MatchingWorkflow*</a>		
<a href="#">GetMatchingWorkflow</a>	Grants permission to get a matching workflow	Read	<a href="#">MatchingWorkflow*</a>		
<a href="#">GetPolicy</a>	Grants permission to get a resource policy for an AWS Entity Resolution resources	Read			
<a href="#">GetProviderService</a>	Grants permission to get provider service	Read	<a href="#">ProviderService*</a>		
<a href="#">GetSchemaMapping</a>	Grants permission to get a schema mapping	Read	<a href="#">SchemaMapping*</a>		
<a href="#">ListIdMappingJobs</a>	Grants permission to list idmapping jobs	List	<a href="#">IdMappingWorkflow*</a>		
<a href="#">ListIdMappingWorkflows</a>	Grants permission to list idmapping workflows	List			
<a href="#">ListIdNamespaces</a>	Grants permission to list IdNamespaces	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMatchingJobs</a>	Grants permission to list matching jobs	List	<a href="#">MatchingWorkflow*</a>		
<a href="#">ListMatchingWorkflows</a>	Grants permission to list matching workflows	List			
<a href="#">ListProviderServices</a>	Grants permission to list provider service	List			
<a href="#">ListSchemaMappings</a>	Grants permission to list schema mappings	List			
<a href="#">ListTagsForResource</a>	Grants permission to List tags for a resource	Read			
<a href="#">PutPolicy</a>	Grants permission to put a resource policy for an AWS Entity Resolution resources	Permissions management			
<a href="#">StartIdMappingJob</a>	Grants permission to start a idmapping job	Write	<a href="#">IdMappingWorkflow*</a>		
<a href="#">StartMatchingJob</a>	Grants permission to start a matching job	Write	<a href="#">MatchingWorkflow*</a>		
<a href="#">TagResource</a>	Grants permission to adds tags to a resource	Tagging	<a href="#">IdMappingWorkflow</a> <a href="#">IdNamespace</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">MatchingWorkflow</a>		
			<a href="#">ProviderService</a>		
			<a href="#">SchemaMapping</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">IdMappingWorkflow</a>		
			<a href="#">IdNamespace</a>		
			<a href="#">MatchingWorkflow</a>		
			<a href="#">ProviderService</a>		
			<a href="#">SchemaMapping</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIdMappingWorkflow</a>	Grants permission to update a idmapping workflow	Write	<a href="#">IdMappingWorkflow*</a>		
<a href="#">UpdateIdNamespace</a>	Grants permission to update a IdNamespace	Write	<a href="#">IdNamespace*</a>		
<a href="#">UpdateMatchingWorkflow</a>	Grants permission to update a matching workflow	Write	<a href="#">MatchingWorkflow*</a>		
<a href="#">UpdateSchemaMapping</a>	Grants permission to update a schema mapping	Write	<a href="#">SchemaMapping*</a>		
<a href="#">UseIdNamespace</a>	Grants permission to give an AWS service or another account permission to use IdNamespace within a workflow	Permissions management			
<a href="#">UseWorkflow</a>	Grants permission to give an AWS service or another account permission to use workflow within a IdNamespace	Permissions management			

## Resource types defined by AWS Entity Resolution

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">MatchingWorkflow</a>	arn:\${Partition}:entityresolution:\${Region}:\${Account}:matchingworkflow/\${WorkflowName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SchemaMapping</a>	arn:\${Partition}:entityresolution:\${Region}:\${Account}:schemamapping/\${SchemaName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">IdMappingWorkflow</a>	arn:\${Partition}:entityresolution:\${Region}:\${Account}:idmappingworkflow/\${WorkflowName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ProviderService</a>	arn:\${Partition}:entityresolution:\${Region}:\${Account}:providerservice/\${ProviderName}/\${ProviderServiceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">IdNamespace</a>	arn:\${Partition}:entityresolution:\${Region}:\${Account}:idnamespace/\${IdNamespaceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Entity Resolution

AWS Entity Resolution defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a key that is present in the request the user makes to the entity resolution service	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names present in the request the user makes to the entity resolution service	ArrayOfString

## Actions, resources, and condition keys for Amazon EventBridge

Amazon EventBridge (service prefix: `events`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EventBridge](#)
- [Resource types defined by Amazon EventBridge](#)
- [Condition keys for Amazon EventBridge](#)

## Actions defined by Amazon EventBridge

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateEventSource</a>	Grants permission to activate partner event sources	Write	<a href="#">event-source*</a>		
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for EventBridge	Write	<a href="#">event-bus*</a>		
<a href="#">CancelReplay</a>	Grants permission to cancel a replay	Write	<a href="#">replay*</a>		
<a href="#">CreateApiDestination</a>	Grants permission to create a new api destination	Write	<a href="#">api-destination*</a>		
			<a href="#">connection*</a>		
<a href="#">CreateArchive</a>	Grants permission to create a new archive	Write	<a href="#">archive*</a>		
			<a href="#">event-bus*</a>		
			<a href="#">alias</a>		
			<a href="#">key</a>		
<a href="#">CreateConnection</a>	Grants permission to create a new connection	Write	<a href="#">connection*</a>		
<a href="#">CreateEndpoint</a>	Grants permission to create an endpoint	Write	<a href="#">endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">events:EventBusArn</a>	
<a href="#">CreateEventBus</a>	Grants permission to create event buses	Write	<a href="#">event-bus*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePartnerEventSource</a>	Grants permission to create partner event sources	Write	<a href="#">event-source*</a>		
<a href="#">DeactivateEventSource</a>	Grants permission to deactivate event sources	Write	<a href="#">event-source*</a>		
<a href="#">DeauthorizeConnection</a>	Grants permission to deauthorize a connection, deleting its stored authorization secrets	Write	<a href="#">connection*</a>		
<a href="#">DeleteApiDestination</a>	Grants permission to delete an api destination	Write	<a href="#">api-destination*</a>		
<a href="#">DeleteArchive</a>	Grants permission to delete an archive	Write	<a href="#">archive*</a>		
<a href="#">DeleteConnection</a>	Grants permission to delete a connection	Write	<a href="#">connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEndpoint</a>	Grants permission to delete an endpoint	Write	<a href="#">endpoint*</a>		
<a href="#">DeleteEventBus</a>	Grants permission to delete event buses	Write	<a href="#">event-bus*</a>		
<a href="#">DeletePartnerEventSource</a>	Grants permission to delete partner event sources	Write	<a href="#">event-source*</a>		
<a href="#">DeleteRule</a>	Grants permission to delete rules	Write	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		
				<a href="#">events:creatorAccount</a>	<a href="#">events:ManagedBy</a>
<a href="#">DescribeApiDestination</a>	Grants permission to retrieve details about an api destination	Read	<a href="#">api-destination*</a>		
			<a href="#">connection*</a>		
<a href="#">DescribeArchive</a>	Grants permission to retrieve details about an archive	Read	<a href="#">archive*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeConnection</a>	Grants permission to retrieve details about a connection	Read	<a href="#">connection*</a>		
<a href="#">DescribeEndpoint</a>	Grants permission to retrieve details about an endpoint	Read	<a href="#">endpoint*</a>		
<a href="#">DescribeEventBus</a>	Grants permission to retrieve details about event buses	Read	<a href="#">event-bus</a>		
<a href="#">DescribeEventSource</a>	Grants permission to retrieve details about event sources	Read	<a href="#">event-source*</a>		
<a href="#">DescribePartnerEventSource</a>	Grants permission to retrieve details about partner event sources	Read	<a href="#">event-source*</a>		
<a href="#">DescribeReplay</a>	Grants permission to retrieve the details of a replay	Read	<a href="#">replay*</a>		
<a href="#">DescribeRule</a>	Grants permission to retrieve details about rules	Read	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		
				<a href="#">events:creatorAccount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableRule</a>	Grants permission to disable rules	Write	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		
				<a href="#">events:creatorAccount</a>  <a href="#">events:ManagedBy</a>	
<a href="#">EnableRule</a>	Grants permission to enable rules	Write	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		
				<a href="#">events:creatorAccount</a>  <a href="#">events:ManagedBy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InvokeApiDestination</a> [permission only]	Grants permission to invoke an api destination	Write	<a href="#">api-destination*</a>		
<a href="#">ListApiDestinations</a>	Grants permission to retrieve a list of api destinations	List			
<a href="#">ListArchives</a>	Grants permission to retrieve a list of archives	List			
<a href="#">ListConnections</a>	Grants permission to retrieve a list of connections	List			
<a href="#">ListEndpoints</a>	Grants permission to retrieve a list of endpoints	List			
<a href="#">ListEventBuses</a>	Grants permission to retrieve a list of the event buses in your account	List			
<a href="#">ListEventSources</a>	Grants permission to to retrieve a list of event sources shared with this account	List			
<a href="#">ListPartnerEventSourceAccounts</a>	Grants permission to retrieve a list of AWS account IDs associated with an event source	List	<a href="#">event-source*</a>		
<a href="#">ListPartnerEventSources</a>	Grants permission to retrieve a list partner event sources	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListReplays</a>	Grants permission to retrieve a list of replays	List			
<a href="#">ListRuleNamesByTarget</a>	Grants permission to retrieve a list of the names of the rules associated with a target	List			
<a href="#">ListRules</a>	Grants permission to retrieve a list of the Amazon EventBridge rules in the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of tags associated with an Amazon EventBridge resource	List	<a href="#">event-bus</a>		
			<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		
				<a href="#">events:creatorAccount</a>	
<a href="#">ListTargetsByRule</a>	Grants permission to retrieve a list of targets defined for a rule	List	<a href="#">rule-on-custom-event-bus</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rule-on-default-event-bus</a>		
				<a href="#">events:creatorAccount</a>	
<a href="#">PutEvents</a>	Grants permission to send custom events to Amazon EventBridge	Write	<a href="#">event-bus*</a>		
				<a href="#">events:detail-type</a>	
				<a href="#">events:source</a>	
				<a href="#">events:eventBusInvocation</a>	
<a href="#">PutPartnerEvents</a>	Grants permission to send custom events to Amazon EventBridge	Write			
<a href="#">PutPermission</a>	Grants permission to use the PutPermission action to grant permission to another AWS account to put events to your default event bus	Permissions management			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutRule</a>	Grants permission to create or updates rules	Write	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">events:detail.userIdentity.principalId</a> <a href="#">events:detail-type</a> <a href="#">events:source</a> <a href="#">events:detail.service</a> <a href="#">events:detail.eventTypeCode</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">events:creatorAccount</a> <a href="#">events:ManagedBy</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutTargets</a>	Grants permission to add targets to a rule	Write	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>	<a href="#">events:TargetArn</a>	
				<a href="#">events:creatorAccount</a>	
				<a href="#">events:ManagedBy</a>	
<a href="#">RemovePermission</a>	Grants permission to revoke the permission of another AWS account to put events to your default event bus	Permissions management			
<a href="#">RemoveTargets</a>	Grants permission to removes targets from a rule	Write	<a href="#">rule-on-custom-event-bus</a>		
			<a href="#">rule-on-default-event-bus</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">events:creatorAccount</a> <a href="#">events:ManagedBy</a>	
<a href="#">RetrieveConnectionCredentials</a> [permission only]	Grants permission to retrieve credentials from a connection	Write	<a href="#">connection*</a>		
<a href="#">StartReplay</a>	Grants permission to start a replay of an archive	Write	<a href="#">archive*</a> <a href="#">event-bus*</a> <a href="#">replay*</a>		
<a href="#">TagResource</a>	Grants permission to add a tag to an Amazon EventBridge resource	Tagging	<a href="#">event-bus</a> <a href="#">rule-on-custom-event-bus</a> <a href="#">rule-on-default-event-bus</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">events:creatorAccount</a>	
<a href="#">TestEventPattern</a>	Grants permission to test whether an event pattern matches the provided event	Read			
<a href="#">UntagResource</a>	Grants permission to remove a tag from an Amazon EventBridge resource	Tagging	<a href="#">event-bus</a>  <a href="#">rule-on-custom-event-bus</a>  <a href="#">rule-on-default-event-bus</a>	<a href="#">aws:TagKeys</a>  <a href="#">events:creatorAccount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApiDestination</a>	Grants permission to update an api destination	Write	<a href="#">api-destination*</a>		
<a href="#">UpdateArchive</a>	Grants permission to update an archive	Write	<a href="#">archive*</a>		
			<a href="#">alias</a>		
			<a href="#">key</a>		
<a href="#">UpdateConnection</a>	Grants permission to update a connection	Write	<a href="#">connection*</a>		
<a href="#">UpdateEndpoint</a>	Grants permission to update an endpoint	Write	<a href="#">endpoint*</a>		
				<a href="#">events:EventBusArn</a>	
<a href="#">UpdateEventBus</a>	Grants permission to update event buses	Write	<a href="#">event-bus*</a>		

## Resource types defined by Amazon EventBridge

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">event-source</a>	arn:\${Partition}:events:\${Region}::event-source/\${EventSourceName}	

Resource types	ARN	Condition keys
<a href="#">event-bus</a>	arn:\${Partition}:events:\${Region}:\${Account}:event-bus/\${EventBusName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule-on-default-event-bus</a>	arn:\${Partition}:events:\${Region}:\${Account}:rule/\${RuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule-on-custom-event-bus</a>	arn:\${Partition}:events:\${Region}:\${Account}:rule/\${EventBusName}/\${RuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">archive</a>	arn:\${Partition}:events:\${Region}:\${Account}:archive/\${ArchiveName}	
<a href="#">replay</a>	arn:\${Partition}:events:\${Region}:\${Account}:replay/\${ReplayName}	
<a href="#">connection</a>	arn:\${Partition}:events:\${Region}:\${Account}:connection/\${ConnectionName}	
<a href="#">api-destination</a>	arn:\${Partition}:events:\${Region}:\${Account}:api-destination/\${ApiDestinationName}	
<a href="#">endpoint</a>	arn:\${Partition}:events:\${Region}:\${Account}:endpoint/\${EndpointName}	
<a href="#">create-snapshot</a>	arn:\${Partition}:events:\${Region}:\${Account}:target/create-snapshot	
<a href="#">reboot-instance</a>	arn:\${Partition}:events:\${Region}:\${Account}:target/reboot-instance	
<a href="#">stop-instance</a>	arn:\${Partition}:events:\${Region}:\${Account}:target/stop-instance	

Resource types	ARN	Condition keys
<a href="#">terminate-instance</a>	arn:\${Partition}:events:\${Region}:\${Account}:target/terminate-instance	
<a href="#">alias</a>	arn:\${Partition}:kms:\${Region}:\${Account}:alias/\${Alias}	
<a href="#">key</a>	arn:\${Partition}:kms:\${Region}:\${Account}:key/\${KeyId}	

## Condition keys for Amazon EventBridge

Amazon EventBridge defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags to event bus and rule actions	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource to event bus and rule actions	String
<a href="#">aws:TagKeys</a>	Filters access by the tags in the request to event bus and rule actions	ArrayOfString
<a href="#">events:EventBusArn</a>	Filters access by the ARN of the event buses that can be associated with an endpoint to <code>CreateEndpoint</code> and <code>UpdateEndpoint</code> actions	ArrayOfARN



Condition keys	Description	Type
<a href="#">events:ManagedBy</a>	Filters access by AWS services. If a rule is created by an AWS service on your behalf, the value is the principal name of the service that created the rule	String
<a href="#">events:TargetArn</a>	Filters access by the ARN of a target that can be put to a rule to PutTargets actions. TargetARN doesn't include DeadLetterConfigArn	ArrayOfARN
<a href="#">events:CreatorAccount</a>	Filters access by the account the rule was created in to rule actions	String
<a href="#">events:detail-type</a>	Filters access by the literal string of the detail-type of the event to PutEvents and PutRule actions	ArrayOfString
<a href="#">events:detail.eventTypeCode</a>	Filters access by the literal string for the detail.eventTypeCode field of the event to PutRule actions	String
<a href="#">events:detail.service</a>	Filters access by the literal string for the detail.service field of the event to PutRule actions	String
<a href="#">events:detail.userIdentity.principalId</a>	Filters access by the literal string for the detail.userIdentity.principalId field of the event to PutRule actions	String
<a href="#">events:eventBusInvocation</a>	Filters access by whether the event was generated via API or cross-account bus invocation to PutEvents actions	String
<a href="#">events:source</a>	Filters access by the AWS service or AWS partner event source that generated the event to PutEvents and PutRule actions. Matches the literal string of the source field of the event	ArrayOfString

## Actions, resources, and condition keys for Amazon EventBridge Pipes

Amazon EventBridge Pipes (service prefix: `pipes`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EventBridge Pipes](#)
- [Resource types defined by Amazon EventBridge Pipes](#)
- [Condition keys for Amazon EventBridge Pipes](#)

## Actions defined by Amazon EventBridge Pipes

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePipe</a>	Grants permission to create a pipe	Write	<a href="#">pipe*</a>		iam:PassRole
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeletePipe</a>	Grants permission to delete a pipe	Write	<a href="#">pipe*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribePipe</a>	Grants permission to describe a pipe	Read	<a href="#">pipe*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListPipes</a>	Grants permission to list all pipes in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">pipe*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartPipe</a>	Grants permission to start a pipe	Write	<a href="#">pipe*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopPipe</a>	Grants permission to stop a pipe	Write	<a href="#">pipe*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">pipe*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">pipe*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdatePipe</a>	Grants permission to update a pipe	Write	<a href="#">pipe*</a>		iam:PassRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon EventBridge Pipes

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">pipe</a>	arn:\${Partition}:pipes:\${Region}:\${Account}:pipe/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EventBridge Pipes

Amazon EventBridge Pipes defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon EventBridge Scheduler

Amazon EventBridge Scheduler (service prefix: `scheduler`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon EventBridge Scheduler](#)

- [Resource types defined by Amazon EventBridge Scheduler](#)
- [Condition keys for Amazon EventBridge Scheduler](#)

## Actions defined by Amazon EventBridge Scheduler

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSchedule</a>	Grants permission to create an Amazon EventBridge Scheduler schedule	Write	<a href="#">schedule*</a>		iam:PassRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateScheduleGroup</a>	Grants permission to create an Amazon EventBridge Scheduler schedule group	Write	<a href="#">schedule-group*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteSchedule</a>	Grants permission to delete an Amazon EventBridge Scheduler schedule	Write	<a href="#">schedule*</a>		
				<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">DeleteScheduleGroup</a>	Grants permission to delete an Amazon EventBridge Scheduler schedule group	Write	<a href="#">schedule-group*</a>		scheduler:DeleteSchedule
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSchedule</a>	Grants permission to view details about an Amazon EventBridge Scheduler schedule	Read	<a href="#">schedule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetScheduleGroup</a>	Grants permission to view details about an Amazon EventBridge Scheduler schedule group	Read	<a href="#">schedule-group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListScheduleGroups</a>	Grants permission to list the Amazon EventBridge Scheduler schedule groups in your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSchedules</a>	Grants permission to list the Amazon EventBridge Scheduler schedules in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to lists tag for an Amazon EventBridge Scheduler resource	Read	<a href="#">schedule-group</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag an Amazon EventBridge Scheduler resource	Tagging	<a href="#">schedule-group*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Amazon EventBridge Scheduler resource	Tagging	<a href="#">schedule-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSchedule</a>	Grants permission to modify an Amazon EventBridge Scheduler schedule	Write	<a href="#">schedule*</a>		iam:PassRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon EventBridge Scheduler

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">schedule-group</a>	arn:\${Partition}:scheduler:\${Region}:\${Account}:schedule-group/\${GroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">schedule</a>	arn:\${Partition}:scheduler:\${Region}:\${Account}:schedule/\${GroupName}/\${ScheduleName}	

## Condition keys for Amazon EventBridge Scheduler

Amazon EventBridge Scheduler defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon EventBridge Schemas

Amazon EventBridge Schemas (service prefix: schemas) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon EventBridge Schemas](#)
- [Resource types defined by Amazon EventBridge Schemas](#)
- [Condition keys for Amazon EventBridge Schemas](#)

## Actions defined by Amazon EventBridge Schemas

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDiscoverer</a>	Grants permission to create an event schema discoverer. Once created, your events will be automatically mapped into corresponding schema documents	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRegistry</a>	Grants permission to create a new schema registry in your account	Write	<a href="#">registry*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSchema</a>	Grants permission to create a new schema in your account	Write	<a href="#">schema*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDiscoverer</a>	Grants permission to delete discoverer in your account	Write	<a href="#">discoverer*</a>		
<a href="#">DeleteRegistry</a>	Grants permission to delete an existing registry in your account	Write	<a href="#">registry*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the resource-based policy attached to a given registry	Write	<a href="#">registry*</a>		
<a href="#">DeleteSchema</a>	Grants permission to delete an existing schema in your account	Write	<a href="#">schema*</a>		
<a href="#">DeleteSchemaVersion</a>	Grants permission to delete a specific version of schema in your account	Write	<a href="#">schema*</a>		
<a href="#">DescribeCodeBinding</a>	Grants permission to retrieve metadata for generated code for specific schema in your account	Read	<a href="#">schema*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDiscoverer</a>	Grants permission to retrieve discoverer metadata in your account	Read	<a href="#">discoverer*</a>		
<a href="#">DescribeRegistry</a>	Grants permission to describe an existing registry metadata in your account	Read	<a href="#">registry*</a>		
<a href="#">DescribeSchema</a>	Grants permission to retrieve an existing schema in your account	Read	<a href="#">schema*</a>		
<a href="#">ExportSchema</a>	Grants permission to export the AWS registry or discovered schemas in OpenAPI 3 format to JSONSchema format	Read	<a href="#">registry*</a> <a href="#">schema*</a>		
<a href="#">GetCodeBindingSource</a>	Grants permission to retrieve metadata for generated code for specific schema in your account	Read	<a href="#">schema*</a>		
<a href="#">GetDiscoveredSchema</a>	Grants permission to retrieve a schema for the provided list of sample events	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve the resource-based policy attached to a given registry	Read	<a href="#">registry*</a>		
<a href="#">ListDiscoverers</a>	Grants permission to list all discoverers in your account	List	<a href="#">discoverer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRegistries</a>	Grants permission to list all registries in your account	List	<a href="#">registry*</a>		
<a href="#">ListSchemaVersions</a>	Grants permission to list all versions of a schema	List	<a href="#">schema*</a>		
<a href="#">ListSchemas</a>	Grants permission to list all schemas	List	<a href="#">schema*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to lists tags for a resource	Read	<a href="#">discover</a>		
			<a href="#">registry</a>		
			<a href="#">schema</a>		
<a href="#">PutCodeBinding</a>	Grants permission to generate code for specific schema in your account	Write	<a href="#">schema*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource-based policy to a given registry	Write	<a href="#">registry*</a>		
<a href="#">SearchSchemas</a>	Grants permission to search schemas based on specified keywords in your account	List	<a href="#">schema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDiscoverer</a>	Grants permission to start the specified discoverer. Once started the discoverer will automatically register schemas for published events to configured source in your account	Write	<a href="#">discoverer*</a>		
<a href="#">StopDiscoverer</a>	Grants permission to stop the specified discoverer. Once stopped the discoverer will no longer register schemas for published events to configured source in your account	Write	<a href="#">discoverer*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">discoverer</a>		
			<a href="#">registry</a>		
			<a href="#">schema</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">discoverer</a>		
			<a href="#">registry</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">schema</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDiscoverer</a>	Grants permission to update an existing discoverer in your account	Write	<a href="#">discoverer*</a>		
<a href="#">UpdateRegistry</a>	Grants permission to update an existing registry metadata in your account	Write	<a href="#">registry*</a>		
<a href="#">UpdateSchema</a>	Grants permission to update an existing schema in your account	Write	<a href="#">schema*</a>		

## Resource types defined by Amazon EventBridge Schemas

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">discoverer</a>	arn:\${Partition}:schemas:\${Region}:\${Account}:discoverer/\${DiscovererId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">registry</a>	arn:\${Partition}:schemas:\${Region}:\${Account}:registry/\${RegistryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">schema</a>	arn:\${Partition}:schemas:\${Region}:\${Account}:schema/\${RegistryName}/\${SchemaName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon EventBridge Schemas

Amazon EventBridge Schemas defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Fault Injection Service

AWS Fault Injection Service (service prefix: `fis`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Fault Injection Service](#)
- [Resource types defined by AWS Fault Injection Service](#)
- [Condition keys for AWS Fault Injection Service](#)

## Actions defined by AWS Fault Injection Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateExperimentTemplate</a>	Grants permission to create an AWS FIS experiment template	Write	<a href="#">action*</a>		
			<a href="#">experiment-template*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateTargetAccountConfiguration</a>	Grants permission to create an AWS FIS target account configuration	Write	<a href="#">experiment-template*</a>		
<a href="#">DeleteExperimentTemplate</a>	Grants permission to delete the AWS FIS experiment template	Write	<a href="#">experiment-template*</a>		
<a href="#">DeleteTargetAccountConfiguration</a>	Grants permission to delete an AWS FIS target account configuration	Write	<a href="#">experiment-template*</a>		
<a href="#">GetAction</a>	Grants permission to retrieve an AWS FIS action	Read	<a href="#">action*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExperiment</a>	Grants permission to retrieve an AWS FIS experiment	Read	<a href="#">experiment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExperimentTargetAccountConfiguration</a>	Grants permission to retrieve an AWS FIS target account configuration for an AWS FIS experiment	Read	<a href="#">experiment*</a>		
<a href="#">GetExperimentTemplate</a>	Grants permission to retrieve an AWS FIS Experiment Template	Read	<a href="#">experiment-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSafetyLever</a>	Grants permission to get information about the safety lever	Read	<a href="#">safety-lever*</a>		
<a href="#">GetTargetAccountConfiguration</a>	Grants permission to retrieve an AWS FIS target account configuration for an AWS FIS experiment template	Read	<a href="#">experiment-template*</a>		
<a href="#">GetTargetResourceType</a>	Grants permission to get information about the specified resource type	Read			
<a href="#">InjectApiInternalError</a> [permission only]	Grants permission to inject an API internal error on the provided AWS service from an FIS Experiment	Write	<a href="#">experiment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">fis:Service</a> <a href="#">fis:Operations</a> <a href="#">fis:Percentage</a> <a href="#">fis:Targets</a>	
<a href="#">InjectApiThrottleError</a> [permission only]	Grants permission to inject an API throttle error on the provided AWS service from an FIS Experiment	Write	<a href="#">experiment*</a>	<a href="#">fis:Service</a> <a href="#">fis:Operations</a> <a href="#">fis:Percentage</a> <a href="#">fis:Targets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InjectApiUnavailableError</a> [permission only]	Grants permission to inject an API unavailable error on the provided AWS service from an FIS Experiment	Write	<a href="#">experiment*</a>	<a href="#">fis:Service</a> <a href="#">fis:Operations</a> <a href="#">fis:Percentage</a> <a href="#">fis:Targets</a>	
<a href="#">ListActions</a>	Grants permission to list all available AWS FIS actions	List			
<a href="#">ListExperimentResolvedTargets</a>	Grants permission to list resolved targets for AWS FIS experiments	List	<a href="#">experiment*</a>		
<a href="#">ListExperimentTargetAccountConfigurations</a>	Grants permission to list target account configurations for AWS FIS experiments	List	<a href="#">experiment*</a>		
<a href="#">ListExperimentTemplates</a>	Grants permission to list all available AWS FIS experiment templates	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListExperiments</a>	Grants permission to list all available AWS FIS experiments	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an AWS FIS resource	Read	<a href="#">action</a>		
			<a href="#">experiment</a>		
			<a href="#">experiment-template</a>		
<a href="#">ListTargetAccountConfigurations</a>	Grants permission to list target account configurations for AWS FIS experiment templates	List	<a href="#">experiment-template*</a>		
<a href="#">ListTargetResourceTypes</a>	Grants permission to list the resource types	List			
<a href="#">StartExperiment</a>	Grants permission to run an AWS FIS experiment	Write	<a href="#">experiment*</a>		iam:CreateServiceLinkedRole
			<a href="#">experiment-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopExperiment</a>	Grants permission to stop an AWS FIS experiment	Write	<a href="#">experiment*</a>		
<a href="#">TagResource</a>	Grants permission to tag AWS FIS resources	Tagging	<a href="#">action</a>		
			<a href="#">experiment_</a>		
			<a href="#">experiment-template</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag AWS FIS resources	Tagging	<a href="#">action</a>		
			<a href="#">experiment_</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">experiment-template</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateExperimentTemplate</a>	Grants permission to update the specified AWS FIS experiment template	Write	<a href="#">experiment-template*</a>		
			<a href="#">action</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateSafetyLevelState</a>	Grants permission to update the state of the safety lever	Write	<a href="#">safety-lever*</a>		
<a href="#">UpdateTargetAccountConfiguration</a>	Grants permission to update an AWS FIS target account configuration	Write	<a href="#">experiment-template*</a>		

## Resource types defined by AWS Fault Injection Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">action</a>	arn:\${Partition}:fis:\${Region}:\${Account}:action/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">experiment</a>	arn:\${Partition}:fis:\${Region}:\${Account}:experiment/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">experiment-template</a>	arn:\${Partition}:fis:\${Region}:\${Account}:experiment-template/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">safety-lever</a>	arn:\${Partition}:fis:\${Region}:\${Account}:safety-lever/\${Id}	

## Condition keys for AWS Fault Injection Service

AWS Fault Injection Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">fis:Operations</a>	Filters access by the list of operations on the AWS service that is being affected by the AWS FIS action	ArrayOfString
<a href="#">fis:Percentage</a>	Filters access by the percentage of calls being affected by the AWS FIS action	Numeric
<a href="#">fis:Service</a>	Filters access by the AWS service that is being affected by the AWS FIS action	String
<a href="#">fis:Targets</a>	Filters access by the list of resource ARNs being targeted by the AWS FIS action	ArrayOfString

## Actions, resources, and condition keys for Amazon FinSpace

Amazon FinSpace (service prefix: `finspace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon FinSpace](#)
- [Resource types defined by Amazon FinSpace](#)
- [Condition keys for Amazon FinSpace](#)



## Actions defined by Amazon FinSpace

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ConnectKxCluster</a> [permission only]	Grants permission to connect to a kdb cluster	Write	<a href="#">kxCluster</a> *		
<a href="#">CreateEnvironment</a>	Grants permission to create a FinSpace environment	Write	<a href="#">environment*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateKxChangeset</a>	Grants permission to create a changeset for a kdb database	Write	<a href="#">kxDatabases*</a>		
<a href="#">CreateKxCluster</a>	Grants permission to create a cluster in a managed kdb environment	Write	<a href="#">kxCluster</a> *		ec2:DescribeSubnets  finspace:MountKxDatabase

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateKxDDatabase</a>	Grants permission to create a kdb database in a managed kdb environment	Write	<a href="#">kxDatabases*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateKxDDataView</a>	Grants permission to create a dataview in a managed kdb environment	Write	<a href="#">kxDataview*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateKxEnvironment</a>	Grants permission to create a managed kdb environment	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateKxScalingGroup</a>	Grants permission to create a scaling group in a managed kdb environment	Write	<a href="#">kxScalingGroup*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateKxUser</a>	Grants permission to create a user in a managed kdb environment	Write	<a href="#">kxEnvironment*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateKxVolume</a>	Grants permission to create a volume in a managed kdb environment	Write	<a href="#">kxVolume*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateUser</a>	Grants permission to create a FinSpace user	Write	<a href="#">environment*</a> <a href="#">user*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteEnvironment</a>	Grants permission to delete a FinSpace environment	Write	<a href="#">environment*</a>		
<a href="#">DeleteKxCluster</a>	Grants permission to delete a kdb cluster	Write	<a href="#">kxCluster*</a>		
<a href="#">DeleteKxClusterNode</a>	Grants permission to delete a node from a kdb cluster	Write	<a href="#">kxCluster*</a>		
<a href="#">DeleteKxDatabas</a>	Grants permission to delete a kdb database	Write	<a href="#">kxDatabases*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteKxDataview</a>	Grants permission to delete a dataview in a managed kdb environment	Write	<a href="#">kxDataview*</a>		
<a href="#">DeleteKxEnvironment</a>	Grants permission to delete a managed kdb environment	Write	<a href="#">kxEnvironment*</a>		
<a href="#">DeleteKxScalingGroup</a>	Grants permission to delete a scaling group in a managed kdb environment	Write	<a href="#">kxScalingGroup*</a>		
<a href="#">DeleteKxUser</a>	Grants permission to delete a kdb user	Write	<a href="#">kxUser*</a>		
<a href="#">DeleteKxVolume</a>	Grants permission to delete a volume in a managed kdb environment	Write	<a href="#">kxVolume*</a>		
<a href="#">GetEnvironment</a>	Grants permission to describe a FinSpace environment	Read	<a href="#">environment*</a>		
<a href="#">GetKxChangeset</a>	Grants permission to describe a changeset for a kdb database	Read	<a href="#">kxDatabases*</a>		
<a href="#">GetKxCluster</a>	Grants permission to describe a cluster in a managed kdb environment	Read	<a href="#">kxCluster*</a>		
<a href="#">GetKxConnectionString</a>	Grants permission to retrieve a connection string for kdb clusters	Read	<a href="#">kxCluster*</a>		finSPACE: ConnectKxCluster

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetKxDatabase</a>	Grants permission to describe a kdb database	Read	<a href="#">kxDatabases*</a>		
<a href="#">GetKxDatabaview</a>	Grants permission to describe a databiew in a managed kdb environment	Read	<a href="#">kxDatabaview*</a>		
<a href="#">GetKxEnvironment</a>	Grants permission to describe a managed kdb environment	Read	<a href="#">kxEnvironment*</a>		
<a href="#">GetKxScalingGroup</a>	Grants permission to describe a scaling group in a managed kdb environment	Read	<a href="#">kxScalingGroup*</a>		
<a href="#">GetKxUser</a>	Grants permission to describe a kdb user	Read	<a href="#">kxUser*</a>		
<a href="#">GetKxVolume</a>	Grants permission to describe a volume in a managed kdb environment	Read	<a href="#">kxVolume*</a>		
<a href="#">GetLoadSampleDataSetGroupIntoEnvironmentStatus</a>	Grants permission to request status of the loading of sample data bundle	Read	<a href="#">environment*</a>		
<a href="#">GetUser</a>	Grants permission to describe a FinSpace user	Read	<a href="#">environment*</a> <a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEnvironments</a>	Grants permission to list FinSpace environments in the AWS account	List	<a href="#">environment*</a>		
<a href="#">ListKxChangesets</a>	Grants permission to list changesets for a kdb database	List	<a href="#">kxDatabases*</a>		
<a href="#">ListKxClusterNodes</a>	Grants permission to list cluster nodes in a managed kdb environment	List	<a href="#">kxCluster*</a>		
<a href="#">ListKxClusters</a>	Grants permission to list clusters in a managed kdb environment	List	<a href="#">kxEnvironment*</a>		
<a href="#">ListKxDatabases</a>	Grants permission to list kdb databases in a managed kdb environment	List	<a href="#">kxEnvironment*</a>		
<a href="#">ListKxDataviews</a>	Grants permission to list dataviews in a database	List	<a href="#">kxDatabases*</a>		
<a href="#">ListKxEnvironments</a>	Grants permission to list managed kdb environments	List			
<a href="#">ListKxScalingGroups</a>	Grants permission to list scaling groups in a managed kdb environment	List	<a href="#">kxEnvironment*</a>		
<a href="#">ListKxUsers</a>	Grants permission to list users in a managed kdb environment	List	<a href="#">kxEnvironment*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListKxVolumes</a>	Grants permission to list volumes in a managed kdb environment	List	<a href="#">kxEnvironment*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for a resource	List	<a href="#">environment*</a>		
			<a href="#">kxCluster*</a>		
			<a href="#">kxDatabases*</a>		
			<a href="#">kxDatabases*</a>		
			<a href="#">kxDataViews*</a>		
			<a href="#">kxEnvironment*</a>		
			<a href="#">kxScalingGroup*</a>		
			<a href="#">kxUser*</a>		
<a href="#">ListUsers</a>	Grants permission to list FinSpace users in an environment	List	<a href="#">environment*</a>		
			<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LoadSampleDataSetGroupIntoEnvironment</a>	Grants permission to load sample data bundle into your FinSpace environment	Write	<a href="#">environment*</a>		
<a href="#">MountKxDatabase</a> [permission only]	Grants permission to mount a database to a kdb cluster	Write	<a href="#">kxDatabases*</a>		
<a href="#">ResetUserPassword</a>	Grants permission to reset the password for a FinSpace user	Write	<a href="#">environment*</a> <a href="#">user*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">environment</a> <a href="#">kxCluster</a> <a href="#">kxDatabases</a> <a href="#">kxDatabases</a> <a href="#">kxEnvironment</a> <a href="#">kxScalingGroup</a> <a href="#">kxUser</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">kxVolume</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">environment</a>		
			<a href="#">kxCluster</a>		
			<a href="#">kxDatabase</a>		
			<a href="#">kxDataview</a>		
			<a href="#">kxEnvironment</a>		
			<a href="#">kxScalingGroup</a>		
			<a href="#">kxUser</a>		
			<a href="#">kxVolume</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironment</a>	Grants permission to update a FinSpace environment	Write	<a href="#">environment*</a>		
<a href="#">UpdateKxClusterCodeConfiguration</a>	Grants permission to update code configuration for a cluster in a managed kdb environment	Write	<a href="#">kxCluster*</a>		
<a href="#">UpdateKxClusterDatabases</a>	Grants permission to update databases for a cluster in a managed kdb environment	Write	<a href="#">kxCluster*</a>		
<a href="#">UpdateKxDatabse</a>	Grants permission to update a kdb database	Write	<a href="#">kxDatabse*</a>		
<a href="#">UpdateKxDataview</a>	Grants permission to update a dataview in a managed kdb environment	Write	<a href="#">kxDataview*</a>		
<a href="#">UpdateKxEnvironment</a>	Grants permission to update a managed kdb environment	Write	<a href="#">kxEnvironment*</a>		
<a href="#">UpdateKxEnvironmentNetwork</a>	Grants permission to update the network for a managed kdb environment	Write	<a href="#">kxEnvironment*</a>		
<a href="#">UpdateKxUser</a>	Grants permission to update a kdb user	Write	<a href="#">kxUser*</a>		
<a href="#">UpdateKxVolume</a>	Grants permission to update a volume in a managed kdb environment	Write	<a href="#">kxVolume*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateUser</a>	Grants permission to update a FinSpace user	Write	<a href="#">environment*</a>		
			<a href="#">user*</a>		

## Resource types defined by Amazon FinSpace

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:environment/\${EnvironmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">user</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:user/\${UserId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kxEnvironment</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kxUser</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}/kxUser/\${UserName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">kxCluster</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}/kxCluster/\${KxCluster}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kxDatabase</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}/kxDatabase/\${KxDatabase}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kxScaling Group</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}/kxScalingGroup/\${KxScalingGroup}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kxDataview</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}/kxDatabase/\${KxDatabase}/kxDataview/\${KxDataview}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kxVolume</a>	arn:\${Partition}:finspace:\${Region}:\${Account}:kxEnvironment/\${EnvironmentId}/kxVolume/\${KxVolume}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon FinSpace

Amazon FinSpace defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon FinSpace API

Amazon FinSpace API (service prefix: `finspace-api`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon FinSpace API](#)
- [Resource types defined by Amazon FinSpace API](#)
- [Condition keys for Amazon FinSpace API](#)

## Actions defined by Amazon FinSpace API

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetProgrammaticAccessCredentials</a>	Grants permission to retrieve FinSpace programmatic access credentials	Read	<a href="#">credential*</a>		

## Resource types defined by Amazon FinSpace API

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">credential</a>	arn:\${Partition}:finspace-api:\${Region}:\${Account}:/credentials/programmatic	

## Condition keys for Amazon FinSpace API

FinSpace API has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Firewall Manager

AWS Firewall Manager (service prefix: fms) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Firewall Manager](#)
- [Resource types defined by AWS Firewall Manager](#)
- [Condition keys for AWS Firewall Manager](#)

## Actions defined by AWS Firewall Manager


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateAdminAccount</a>	Grants permission to set the AWS Firewall Manager administrator account and enables the service in all organization accounts	Write			
<a href="#">AssociateThirdPartyFirewall</a>	Grants permission to set the Firewall Manager administrator as a tenant administrator of a third-party firewall service	Write			
<a href="#">BatchAssociateResource</a>	Grants permission to associate resources to an AWS Firewall Manager resource set	Write	<a href="#">resource-set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDisassociateResource</a>	Grants permission to disassociate resources from an AWS Firewall Manager resource set	Write	<a href="#">resource-set*</a>		
<a href="#">DeleteApplicationsList</a>	Grants permission to permanently deletes an AWS Firewall Manager applications list	Write	<a href="#">applications-list*</a>		
<a href="#">DeleteNotificationChannel</a>	Grants permission to delete an AWS Firewall Manager association with the IAM role and the Amazon Simple Notification Service (SNS) topic that is used to notify the FM administrator about major FM events and errors across the organization	Write			
<a href="#">DeletePolicy</a>	Grants permission to permanently delete an AWS Firewall Manager policy	Write	<a href="#">policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteProtocolsList</a>	Grants permission to permanently deletes an AWS Firewall Manager protocols list	Write	<a href="#">protocols-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourceSet</a>	Grants permission to permanently delete an AWS Firewall Manager resource set	Write	<a href="#">resource-set*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateAdminAccount</a>	Grants permission to disassociate the account that has been set as the AWS Firewall Manager administrator account and disables the service in all organization accounts	Write			
<a href="#">DisassociateThirdPartyFirewall</a>	Grants permission to disassociate a Firewall Manager administrator from a third-party firewall tenant	Write			
<a href="#">GetAdminAccount</a>	Grants permission to return the AWS Organizations account that is associated with AWS Firewall Manager as the AWS Firewall Manager administrator	Read			
<a href="#">GetAdminScope</a>	Grants permission to return information about the specified account's administrative scope	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAppsList</a>	Grants permission to return information about the specified AWS Firewall Manager applications list	Read	<a href="#">applications-list*</a>		
<a href="#">GetComplianceDetail</a>	Grants permission to retrieve detailed compliance information about the specified member account. Details include resources that are in and out of compliance with the specified policy	Read	<a href="#">policy*</a>		
<a href="#">GetNotificationChannel</a>	Grants permission to retrieve information about the Amazon Simple Notification Service (SNS) topic that is used to record AWS Firewall Manager SNS logs	Read			
<a href="#">GetPolicy</a>	Grants permission to retrieve information about the specified AWS Firewall Manager policy	Read	<a href="#">policy*</a>		
<a href="#">GetProtectionStatus</a>	Grants permission to retrieve policy-level attack summary information in the event of a potential DDoS attack	Read	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetProtocolsList</a>	Grants permission to return information about the specified AWS Firewall Manager protocols list	Read	<a href="#">protocols-list*</a>		
<a href="#">GetResourceSet</a>	Grants permission to retrieve information about the specified AWS Firewall Manager resource set	Read	<a href="#">resource-set*</a>		
<a href="#">GetThirdPartyFirewallAssociationStatus</a>	Grants permission to retrieve the onboarding status of a Firewall Manager administrator account to third-party firewall vendor tenant	Read			
<a href="#">GetViolationDetails</a>	Grants permission to retrieve violations for a resource based on the specified AWS Firewall Manager policy and AWS account	Read	<a href="#">policy*</a>		
<a href="#">ListAdminAccountsForOrganization</a>	Grants permission to return a AdminAccounts object that lists the Firewall Manager administrators within the organization that are onboarded to Firewall Manager by Associate AdminAccount	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAdminsManagingAccount</a>	Grants permission to list the accounts that are managing the specified AWS Organizations member account	List			
<a href="#">ListAppsLists</a>	Grants permission to return an array of AppListDataSummary objects	List			
<a href="#">ListComplianceStatus</a>	Grants permission to retrieve an array of PolicyComplianceStatus objects in the response. Use PolicyComplianceStatus to get a summary of which member accounts are protected by the specified policy	List	<a href="#">policy*</a>		
<a href="#">ListDiscoveredResources</a>	Grants permission to retrieve an array of resources in the organization's accounts that are available to be associated with a resource set	List			
<a href="#">ListMemberAccounts</a>	Grants permission to retrieve an array of member account ids if the caller is FMS admin account	List			
<a href="#">ListPolicies</a>	Grants permission to retrieve an array of PolicySummary objects in the response	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProtocolsLists</a>	Grants permission to return an array of ProtocolsListDataSummary objects	List			
<a href="#">ListResourceSetResources</a>	Grants permission to retrieve an array of resources that are currently associated to a resource set	List	<a href="#">resource-set*</a>		
<a href="#">ListResourceSets</a>	Grants permission to retrieve an array of ResourceSetSummary objects	List			
<a href="#">ListTagsForResource</a>	Grants permission to list Tags for a given resource	Read	<a href="#">policy*</a>		
<a href="#">ListThirdPartyFirewallPolicies</a>	Grants permission to retrieve a list of all of the third-party firewall policies that are associated with the third-party firewall administrator's account	List			
<a href="#">PutAdministratorAccount</a>	Grants permission to create or update an Firewall Manager administrator account	Write			
<a href="#">PutApplicationsList</a>	Grants permission to create an AWS Firewall Manager applications list	Write	<a href="#">applications-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">PutNotificationChannel</a>	Grants permission to designate the IAM role and Amazon Simple Notification Service (SNS) topic that AWS Firewall Manager (FM) could use to notify the FM administrator about major FM events and errors across the organization	Write			
<a href="#">PutPolicy</a>	Grants permission to create an AWS Firewall Manager policy	Write	<a href="#">policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">PutProtocolsList</a>	Grants permission to creates an AWS Firewall Manager protocols list	Write	<a href="#">protocols-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PutResourceSet</a>	Grants permission to create an AWS Firewall Manager resource set	Write	<a href="#">resource-set*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to add a Tag to a given resource	Tagging	<a href="#">applications-list</a> <a href="#">policy</a> <a href="#">protocols-list</a> <a href="#">resource-set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a Tag from a given resource	Tagging	<a href="#">applications-list</a>		
			<a href="#">policy</a>		
			<a href="#">protocols-list</a>		
			<a href="#">resource-set</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Firewall Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">policy</a>	arn:\${Partition}:fms:\${Region}:\${Account}:policy/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">applications-list</a>	arn:\${Partition}:fms:\${Region}:\${Account}:applications-list/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">protocols-list</a>	arn:\${Partition}:fms:\${Region}:\${Account}:protocols-list/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resource-set</a>	arn:\${Partition}:fms:\${Region}:\${Account}:resource-set/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Firewall Manager

AWS Firewall Manager defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Forecast

Amazon Forecast (service prefix: `forecast`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Forecast](#)
- [Resource types defined by Amazon Forecast](#)
- [Condition keys for Amazon Forecast](#)

## Actions defined by Amazon Forecast

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAutoPredictor</a>	Grants permission to create an auto predictor	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataset</a>	Grants permission to create a dataset	Write	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDatasetGroup</a>	Grants permission to create a dataset group	Write	<a href="#">datasetGroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDatasetImportJob</a>	Grants permission to create a dataset import job	Write	<a href="#">datasetImportJob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateExplainability</a>	Grants permission to create an explainability	Write	<a href="#">forecast*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateExplainabilityExport</a>	Grants permission to create an explainability export using an explainability resource	Write	<a href="#">explainability*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateForecast</a>	Grants permission to create a forecast	Write	<a href="#">predictor*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateForecastEndpoint</a> [permission only]	Grants permission to create an endpoint using a Predictor resource	Write	<a href="#">predictor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateForecastExportJob</a>	Grants permission to create a forecast export job using a forecast resource	Write	<a href="#">forecast*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMonitor</a>	Grants permission to create an monitor using a Predictor resource	Write	<a href="#">predictor*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePredictor</a>	Grants permission to create a predictor	Write	<a href="#">datasetGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePredictorBacktestExportJob</a>	Grants permission to create a predictor backtest export job using a predictor	Write	<a href="#">predictor*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWhatIfAnalysis</a>	Grants permission to create a what-if analysis	Write	<a href="#">forecast*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWhatIfForecast</a>	Grants permission to create a what-if forecast	Write	<a href="#">whatIfAnalysis*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWhatIfForecastExport</a>	Grants permission to create a what-if forecast export using what-if forecast resources	Write	<a href="#">whatIfForecast*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDataset</a>	Grants permission to delete a dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteDatasetGroup</a>	Grants permission to delete a dataset group	Write	<a href="#">datasetGroup*</a>		
<a href="#">DeleteDatasetImportJob</a>	Grants permission to delete a dataset import job	Write	<a href="#">datasetImportJob*</a>		
<a href="#">DeleteExplainability</a>	Grants permission to delete an explainability	Write	<a href="#">explainability*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteExplainabilityExport</a>	Grants permission to delete an explainability export	Write	<a href="#">explainabilityExport*</a>		
<a href="#">DeleteForecast</a>	Grants permission to delete a forecast	Write	<a href="#">forecast*</a>		
<a href="#">DeleteForecastEndpoint</a> [permission only]	Grants permission to delete an endpoint resource	Write	<a href="#">endpoint*</a>		
<a href="#">DeleteForecastExportJob</a>	Grants permission to delete a forecast export job	Write	<a href="#">forecastExport*</a>		
<a href="#">DeleteMonitor</a>	Grants permission to delete a monitor resource	Write	<a href="#">monitor*</a>		
<a href="#">DeletePredictor</a>	Grants permission to delete a predictor	Write	<a href="#">predictor*</a>		
<a href="#">DeletePredictorBacktestExportJob</a>	Grants permission to delete a predictor backtest export job	Write	<a href="#">predictorBacktestExportJob*</a>		
<a href="#">DeleteResourceTree</a>	Grants permission to delete a resource and its child resources	Write	<a href="#">dataset*</a> <a href="#">datasetGroup*</a> <a href="#">datasetImportJob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">endpoint*</a>		
			<a href="#">explainability*</a>		
			<a href="#">explainabilityExport*</a>		
			<a href="#">forecast*</a>		
			<a href="#">forecastExport*</a>		
			<a href="#">monitor*</a>		
			<a href="#">predictor*</a>		
			<a href="#">predictorBacktestExportJob*</a>		
			<a href="#">whatIfAnalysis*</a>		
			<a href="#">whatIfForecast*</a>		
			<a href="#">whatIfForecastExport*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWhatIfAnalysis</a>	Grants permission to delete a what-if analysis	Write	<a href="#">whatIfAnalysis*</a>		
<a href="#">DeleteWhatIfForecast</a>	Grants permission to delete a what-if forecast	Write	<a href="#">whatIfForecast*</a>		
<a href="#">DeleteWhatIfForecastExport</a>	Grants permission to delete a what-if forecast export	Write	<a href="#">whatIfForecastExport*</a>		
<a href="#">DescribeAutoPredictor</a>	Grants permission to describe an auto predictor	Read	<a href="#">predictor*</a>		
<a href="#">DescribeDataset</a>	Grants permission to describe a dataset	Read	<a href="#">dataset*</a>		
<a href="#">DescribeDatasetGroup</a>	Grants permission to describe a dataset group	Read	<a href="#">datasetGroup*</a>		
<a href="#">DescribeDatasetImportJob</a>	Grants permission to describe a dataset import job	Read	<a href="#">datasetImportJob*</a>		
<a href="#">DescribeExplainability</a>	Grants permission to describe an explainability	Read	<a href="#">explainability*</a>		
<a href="#">DescribeExplainabilityExport</a>	Grants permission to describe an explainability export	Read	<a href="#">explainabilityExport*</a>		
<a href="#">DescribeForecast</a>	Grants permission to describe a forecast	Read	<a href="#">forecast*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeForecastEndpoint</a> [permission only]	Grants permission to describe an endpoint resource	Read	<a href="#">endpoint*</a>		
<a href="#">DescribeForecastExportJob</a>	Grants permission to describe a forecast export job	Read	<a href="#">forecastExport*</a>		
<a href="#">DescribeMonitor</a>	Grants permission to describe an monitor resource	Read	<a href="#">monitor*</a>		
<a href="#">DescribePredictor</a>	Grants permission to describe a predictor	Read	<a href="#">predictor*</a>		
<a href="#">DescribePredictorBacktestExportJob</a>	Grants permission to describe a predictor backtest export job	Read	<a href="#">predictorBacktestExportJob*</a>		
<a href="#">DescribeWhatIfAnalysis</a>	Grants permission to describe a what-if analysis	Read	<a href="#">whatIfAnalysis*</a>		
<a href="#">DescribeWhatIfForecast</a>	Grants permission to describe a what-if forecast	Read	<a href="#">whatIfForecast*</a>		
<a href="#">DescribeWhatIfForecastExport</a>	Grants permission to describe a what-if forecast export	Read	<a href="#">whatIfForecastExport*</a>		
<a href="#">GetAccuracyMetrics</a>	Grants permission to get the Accuracy Metrics for a predictor	Read	<a href="#">predictor*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRecentForecastContext</a> [permission only]	Grants permission to get the forecast context of a timeseries for an endpoint	Read	<a href="#">endpoint*</a>		
<a href="#">InvokeForecastEndpoint</a> [permission only]	Grants permission to invoke the endpoint to get forecast for a timeseries	Read	<a href="#">endpoint*</a>		
<a href="#">ListDatasetGroups</a>	Grants permission to list all the dataset groups	Read			
<a href="#">ListDatasetImportJobs</a>	Grants permission to list all the dataset import jobs	Read			
<a href="#">ListDatasets</a>	Grants permission to list all the datasets	Read			
<a href="#">ListExplainabilities</a>	Grants permission to list all the explainabilities	Read			
<a href="#">ListExplainabilityExports</a>	Grants permission to list all the explainability exports	Read			
<a href="#">ListForecastExportJobs</a>	Grants permission to list all the forecast export jobs	Read			
<a href="#">ListForecasts</a>	Grants permission to list all the forecasts	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMonitorEvaluations</a>	Grants permission to list all the monitor evaluation result for a monitor	Read	<a href="#">monitor*</a>		
<a href="#">ListMonitors</a>	Grants permission to list all the monitor resources	Read			
<a href="#">ListPredictorBacktestExportJobs</a>	Grants permission to list all the predictor backtest export jobs	Read			
<a href="#">ListPredictors</a>	Grants permission to list all the predictors	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an Amazon Forecast resource	Read	<a href="#">dataset</a>		
			<a href="#">datasetGroup</a>		
			<a href="#">datasetImportJob</a>		
			<a href="#">endpoint</a>		
			<a href="#">explainability</a>		
			<a href="#">explainabilityExport</a>		
			<a href="#">forecast</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">forecastExport</a>		
			<a href="#">monitor</a>		
			<a href="#">predictor</a>		
			<a href="#">predictorBacktestExportJob</a>		
			<a href="#">whatIfAnalysis</a>		
			<a href="#">whatIfForecast</a>		
			<a href="#">whatIfForecastExport</a>		
<a href="#">ListWhatIfAnalyses</a>	Grants permission to list all the what-if analyses	Read			
<a href="#">ListWhatIfForecastExports</a>	Grants permission to list all the what-if forecast exports	Read			
<a href="#">ListWhatIfForecasts</a>	Grants permission to list all the what-if forecasts	Read			
<a href="#">QueryForecast</a>	Grants permission to retrieve a forecast for a single item	Read	<a href="#">forecast*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">QueryWhatIfForecast</a>	Grants permission to retrieve a what-if forecast for a single item	Read	<a href="#">whatIfForecast*</a>		
<a href="#">ResumeResource</a>	Grants permission to resume Amazon Forecast resource jobs	Write	<a href="#">monitor*</a>		
<a href="#">StopResource</a>	Grants permission to stop Amazon Forecast resource jobs	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
			<a href="#">datasetImportJob*</a>		
			<a href="#">endpoint*</a>		
			<a href="#">explainability*</a>		
			<a href="#">explainabilityExport*</a>		
			<a href="#">forecast*</a>		
<a href="#">forecastExport*</a>					
			<a href="#">monitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">predictor*</a>		
			<a href="#">predictorBacktestExportJob*</a>		
			<a href="#">whatIfAnalysis*</a>		
			<a href="#">whatIfForecast*</a>		
			<a href="#">whatIfForecastExport*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to associate the specified tags to a resource	Tagging	<a href="#">dataset</a>		
			<a href="#">datasetGroup</a>		
			<a href="#">datasetImportJob</a>		
			<a href="#">endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">explainability</a>		
			<a href="#">explainabilityExport</a>		
			<a href="#">forecast</a>		
			<a href="#">forecastExport</a>		
			<a href="#">monitor</a>		
			<a href="#">predictor</a>		
			<a href="#">predictorBacktestExportJob</a>		
			<a href="#">whatIfAnalysis</a>		
			<a href="#">whatIfForecast</a>		
			<a href="#">whatIfForecastExport</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to delete the specified tags for a resource	Tagging	<a href="#">dataset</a>  <a href="#">datasetGroup</a>  <a href="#">datasetImportJob</a>  <a href="#">endpoint</a>  <a href="#">explainability</a>  <a href="#">explainabilityExport</a>  <a href="#">forecast</a>  <a href="#">forecastExport</a>  <a href="#">monitor</a>  <a href="#">predictor</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">predictor</a> <a href="#">BacktestExportJob</a>		
			<a href="#">whatIfAnalysis</a>		
			<a href="#">whatIfForecast</a>		
			<a href="#">whatIfForecastExport</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDatasetGroup</a>	Grants permission to update a dataset group	Write	<a href="#">dataset*</a> <a href="#">datasetGroup*</a>		

## Resource types defined by Amazon Forecast

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">dataset</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:dataset/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">datasetGroup</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:dataset-group/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">datasetImportJob</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:dataset-import-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">algorithm</a>	arn:\${Partition}:forecast:::algorithm/\${ResourceId}	
<a href="#">predictor</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:predictor/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">predictorBacktestExportJob</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:predictor-backtest-export-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">forecast</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:forecast/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">forecastExport</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:forecast-export-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">explainability</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:explainability/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">explainabilityExport</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:explainability-export/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">monitor</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:monitor/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">whatIfAnalysis</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:what-if-analysis/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">whatIfForecast</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:what-if-forecast/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">whatIfForecastExport</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:what-if-forecast-export/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">endpoint</a>	arn:\${Partition}:forecast:\${Region}:\${Account}:forecast-endpoint/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Forecast

Amazon Forecast defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Fraud Detector

Amazon Fraud Detector (service prefix: `frauddetector`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Fraud Detector](#)
- [Resource types defined by Amazon Fraud Detector](#)
- [Condition keys for Amazon Fraud Detector](#)

## Actions defined by Amazon Fraud Detector

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCreateVariable</a>	Grants permission to create a batch of variables	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">BatchGetVariable</a>	Grants permission to get a batch of variables	List	<a href="#">variable*</a>		
<a href="#">CancelBatchImportJob</a>	Grants permission to cancel the specified batch import job	Write	<a href="#">batch-import*</a>		
<a href="#">CancelBatchPredictionJob</a>	Grants permission to cancel the specified batch prediction job	Write	<a href="#">batch-prediction*</a>		
<a href="#">CreateBatchImportJob</a>	Grants permission to create a batch import job	Write	<a href="#">batch-import*</a>		
			<a href="#">event-type*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBatchPredictionJob</a>	Grants permission to create a batch prediction job	Write	<a href="#">batch-prediction*</a>		
			<a href="#">detector*</a>		
			<a href="#">detector-version*</a>		
			<a href="#">event-type*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateDetectorVersion</a>	Grants permission to create a detector version. The detector version starts in a DRAFT status	Write	<a href="#">detector*</a>		
			<a href="#">external-model</a>		
			<a href="#">model-version</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateList</a>	Grants permission to create a list	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateModel</a>	Grants permission to create a model using the specified model type	Write	<a href="#">event-type*</a>		
			<a href="#">model*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateModelVersion</a>	Grants permission to create a version of the model using the specified model type and model id	Write	<a href="#">model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRule</a>	Grants permission to create a rule for use with the specified detector	Write	<a href="#">detector*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateVariable</a>	Grants permission to create a variable	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteBatchImportJob</a>	Grants permission to delete a batch import job	Write	<a href="#">batch-import*</a>		
<a href="#">DeleteBatchPredictionJob</a>	Grants permission to delete a batch prediction job	Write	<a href="#">batch-prediction*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDetector</a>	Grants permission to delete the detector. Before deleting a detector, you must first delete all detector versions and rule versions associated with the detector	Write	<a href="#">detector*</a>		
<a href="#">DeleteDetectorVersion</a>	Grants permission to delete the detector version. You cannot delete detector versions that are in ACTIVE status	Write	<a href="#">detector-version*</a>		
<a href="#">DeleteEntityType</a>	Grants permission to delete an entity type. You cannot delete an entity type that is included in an event type	Write	<a href="#">entity-type*</a>		
<a href="#">DeleteEvent</a>	Grants permission to delete the specified event	Write	<a href="#">event-type*</a>		
<a href="#">DeleteEventTypes</a>	Grants permission to delete an event type. You cannot delete an event type that is used in a detector or a model	Write	<a href="#">event-type*</a>		
<a href="#">DeleteEventsByEventType</a>	Grants permission to delete events for the specified event type	Write	<a href="#">event-type*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteExternalModel</a>	Grants permission to remove a SageMaker model from Amazon Fraud Detector. You can remove an Amazon SageMaker model if it is not associated with a detector version	Write	<a href="#">external-model*</a>		
<a href="#">DeleteLabel</a>	Grants permission to delete a label. You cannot delete labels that are included in an event type in Amazon Fraud Detector. You cannot delete a label assigned to an event ID. You must first delete the relevant event ID	Write	<a href="#">label*</a>		
<a href="#">DeleteList</a>	Grants permission to delete a list	Write	<a href="#">list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteModel</a>	Grants permission to delete a model. You can delete models and model versions in Amazon Fraud Detector, provided that they are not associated with a detector version	Write	<a href="#">model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteModelVersion</a>	Grants permission to delete a model version. You can delete models and model versions in Amazon Fraud Detector, provided that they are not associated with a detector version	Write	<a href="#">model-version*</a>		
<a href="#">DeleteOutcome</a>	Grants permission to delete an outcome. You cannot delete an outcome that is used in a rule version	Write	<a href="#">outcome*</a>		
<a href="#">DeleteRule</a>	Grants permission to delete the rule. You cannot delete a rule if it is used by an ACTIVE or INACTIVE detector version	Write	<a href="#">rule*</a>		
<a href="#">DeleteVariable</a>	Grants permission to delete a variable. You cannot delete variables that are included in an event type in Amazon Fraud Detector	Write	<a href="#">variable*</a>		
<a href="#">DescribeDetector</a>	Grants permission to get all versions for a specified detector	Read	<a href="#">detector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeModelVersions</a>	Grants permission to get all of the model versions for the specified model type or for the specified model type and model ID. You can also get details for a single, specified model version	Read	<a href="#">model-version</a>		
<a href="#">GetBatchImportJobValidationReport</a> [permission only]	Grants permission to get the data validation report of a specific batch import job	Read	<a href="#">batch-import*</a>		
<a href="#">GetBatchImportJobs</a>	Grants permission to get all batch import jobs or a specific job if you specify a job ID	List	<a href="#">batch-import</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBatchPredictionJobs</a>	Grants permission to get all batch prediction jobs or a specific job if you specify a job ID. This is a paginated API. If you provide a null maxResults, this action retrieves a maximum of 50 records per page. If you provide a maxResults, the value must be between 1 and 50. To get the next page results, provide the pagination token from the GetBatchPredictionJobsResponse as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">batch-prediction</a>		
<a href="#">GetDeleteEventsByEventTypeStatus</a>	Grants permission to get a specific event type DeleteEventsByEventType API execution status	Read	<a href="#">event-type*</a>		
<a href="#">GetDetectorVersion</a>	Grants permission to get a particular detector version	Read	<a href="#">detector-version*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDetectors</a>	Grants permission to get all detectors or a single detector if a detectorId is specified . This is a paginated API. If you provide a null maxResults, this action retrieves a maximum of 10 records per page. If you provide a maxResults, the value must be between 5 and 10. To get the next page results, provide the pagination token from the GetDetectorsResponse as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">detector</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEntity Types</a>	Grants permission to get all entity types or a specific entity type if a name is specified. This is a paginated API. If you provide a null maxResults, this action retrieves a maximum of 10 records per page. If you provide a maxResults, the value must be between 5 and 10. To get the next page results, provide the pagination token from the GetEntity TypesResponse as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">entity-type</a>		
<a href="#">GetEvent</a>	Grants permission to get the details of the specified event	Read	<a href="#">event-type*</a>		
<a href="#">GetEventPrediction</a>	Grants permission to evaluate an event against a detector version. If a version ID is not provided, the detector's (ACTIVE) version is used	Read	<a href="#">detector*</a> <a href="#">detector-version*</a> <a href="#">event-type*</a>		
<a href="#">GetEventPredictionMetadata</a>	Grants permission to get more details of a particular prediction	Read	<a href="#">detector*</a> <a href="#">detector-version*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">event-type*</a>		
<a href="#">GetEventTypes</a>	Grants permission to get all event types or a specific event type if name is provided. This is a paginated API. If you provide a null <code>maxResults</code> , this action retrieves a maximum of 10 records per page. If you provide a <code>maxResults</code> , the value must be between 5 and 10. To get the next page results, provide the pagination token from the <code>GetEventTypesResponse</code> as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">event-type</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExternalModels</a>	Grants permission to get the details for one or more Amazon SageMaker models that have been imported into the service. This is a paginated API. If you provide a null <code>maxResults</code> , this actions retrieves a maximum of 10 records per page. If you provide a <code>maxResults</code> , the value must be between 5 and 10. To get the next page results, provide the pagination token from the <code>GetExternalModelsResult</code> as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">external-model</a>		
<a href="#">GetKMSEncryptionKey</a>	Grants permission to get the encryption key if a Key Management Service (KMS) customer master key (CMK) has been specified to be used to encrypt content in Amazon Fraud Detector	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLabels</a>	Grants permission to get all labels or a specific label if name is provided. This is a paginated API. If you provide a null maxResults, this action retrieves a maximum of 50 records per page. If you provide a maxResults, the value must be between 10 and 50. To get the next page results, provide the pagination token from the GetLabelsResponse as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">label</a>		
<a href="#">GetListElements</a>	Grants permission to get elements of a list	Read	<a href="#">list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetListsMetadata</a>	Grants permission to get metadata about lists	List	<a href="#">list</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetModelVersion</a>	Grants permission to get the details of the specified model version	Read	<a href="#">model-version*</a>		
<a href="#">GetModels</a>	Grants permission to get one or more models. Gets all models for the AWS account if no model type and no model id provided. Gets all models for the AWS account and model type, if the model type is specified but model id is not provided. Gets a specific model if (model type, model id) tuple is specified	List	<a href="#">model</a>		
<a href="#">GetOutcomes</a>	Grants permission to get one or more outcomes. This is a paginated API. If you provide a null maxResults, this actions retrieves a maximum of 100 records per page. If you provide a maxResults, the value must be between 50 and 100. To get the next page results, provide the pagination token from the GetOutcomesResult as part of your request. A null pagination token fetches the records from the beginning	List	<a href="#">outcome</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRules</a>	Grants permission to get all rules for a detector (paginated) if ruleId and ruleVersion are not specified. Gets all rules for the detector and the ruleId if present (paginated). Gets a specific rule if both the ruleId and the ruleVersion are specified	List	<a href="#">rule</a>		
<a href="#">GetVariables</a>	Grants permission to get all of the variables or the specific variable. This is a paginated API. Providing null maxSizePerPage results in retrieving maximum of 100 records per page. If you provide maxSizePerPage the value must be between 50 and 100. To get the next page result, a provide a pagination token from GetVariablesResult as part of your request. Null pagination token fetches the records from the beginning	List	<a href="#">variable</a>		
<a href="#">ListEvent Predictions</a>	Grants permission to get a list of past predictions	List	<a href="#">detector</a> <a href="#">detector-version</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">event-type</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags associated with the resource. This is a paginated API. To get the next page results, provide the pagination token from the response as part of your request. A null pagination token fetches the records from the beginning	Read	<a href="#">batch-import</a> <a href="#">batch-prediction</a> <a href="#">detector</a> <a href="#">detector-version</a> <a href="#">entity-type</a> <a href="#">event-type</a> <a href="#">external-model</a> <a href="#">label</a> <a href="#">list</a> <a href="#">model</a> <a href="#">model-version</a> <a href="#">outcome</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutDetector</a>	Grants permission to create or update a detector	Write	<a href="#">rule</a> <a href="#">variable</a> <a href="#">detector*</a> <a href="#">event-type*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PutEntityType</a>	Grants permission to create or update an entity type. An entity represents who is performing the event. As part of a fraud prediction, you pass the entity ID to indicate the specific entity who performed the event. An entity type classifies the entity. Example classifications include customer, merchant, or account	Write	<a href="#">entity-type*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutEventType</a>	<p>Grants permission to create or update an event type. An event is a business activity that is evaluated for fraud risk. With Amazon Fraud Detector, you generate fraud predictions for events. An event type defines the structure for an event sent to Amazon Fraud Detector. This includes the variables sent as part of the event, the entity performing the event (such as a customer), and the labels that classify the event. Example event types include online payment transactions, account registrations, and authentications</p>	Write	<a href="#">event-type*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutExternalModel</a>	Grants permission to create or update an Amazon SageMaker model endpoint. You can also use this action to update the configuration of the model endpoint, including the IAM role and/or the mapped variables	Write	<a href="#">event-type*</a>  <a href="#">external-model*</a>	  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">PutKMSEncryptionKey</a>	Grants permission to specify the Key Management Service (KMS) customer master key (CMK) to be used to encrypt content in Amazon Fraud Detector	Write			
<a href="#">PutLabel</a>	Grants permission to create or update label. A label classifies an event as fraudulent or legitimate. Labels are associated with event types and used to train supervised machine learning models in Amazon Fraud Detector	Write	<a href="#">label*</a>	  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">PutOutcome</a>	Grants permission to create or update an outcome	Write	<a href="#">outcome*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">SendEvent</a>	Grants permission to send event	Write	<a href="#">event-type*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to assign tags to a resource	Tagging	<a href="#">batch-import</a> <a href="#">batch-prediction</a> <a href="#">detector</a> <a href="#">detector-version</a> <a href="#">entity-type</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">event-type</a>		
			<a href="#">external-model</a>		
			<a href="#">label</a>		
			<a href="#">list</a>		
			<a href="#">model</a>		
			<a href="#">model-version</a>		
			<a href="#">outcome</a>		
			<a href="#">rule</a>		
			<a href="#">variable</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">batch-import</a>		
			<a href="#">batch-prediction</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">detector</a>		
			<a href="#">detector-version</a>		
			<a href="#">entity-type</a>		
			<a href="#">event-type</a>		
			<a href="#">external-model</a>		
			<a href="#">label</a>		
			<a href="#">list</a>		
			<a href="#">model</a>		
			<a href="#">model-version</a>		
			<a href="#">outcome</a>		
			<a href="#">rule</a>		
			<a href="#">variable</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDetectorVersion</a>	Grants permission to update a detector version. The detector version attributes that you can update include models, external model endpoints, rules, rule execution mode, and description. You can only update a DRAFT detector version	Write	<a href="#">detector*</a> <a href="#">external-model</a> <a href="#">model-version</a>		
<a href="#">UpdateDetectorVersionMetadata</a>	Grants permission to update the detector version's description. You can update the metadata for any detector version (DRAFT, ACTIVE, or INACTIVE)	Write	<a href="#">detector-version*</a>		
<a href="#">UpdateDetectorVersionStatus</a>	Grants permission to update the detector version's status. You can perform the following promotions or demotions using UpdateDetectorVersionStatus: DRAFT to ACTIVE, ACTIVE to INACTIVE, and INACTIVE to ACTIVE	Write	<a href="#">detector-version*</a>		
<a href="#">UpdateEventLabel</a>	Grants permission to update an existing event record's label value	Write	<a href="#">event-type*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateList</a>	Grants permission to update a list	Write	<a href="#">list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateModel</a>	Grants permission to update a model. You can update the description attribute using this action	Write	<a href="#">model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateModelVersion</a>	Grants permission to update a model version. Updating a model version retrains an existing model version using updated training data and produces a new minor version of the model. You can update the training data set location and data access role attributes using this action. This action creates and trains a new minor version of the model, for example version 1.01, 1.02, 1.03	Write	<a href="#">model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateModelVersionStatus</a>	Grants permission to update the status of a model version	Write	<a href="#">model-version*</a>		
<a href="#">UpdateRuleMetadata</a>	Grants permission to update a rule's metadata. The description attribute can be updated	Write	<a href="#">rule*</a>		
<a href="#">UpdateRuleVersion</a>	Grants permission to update a rule version resulting in a new rule version. Updates a rule version resulting in a new rule version (version 1, 2, 3 ...)	Write	<a href="#">rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateVariable</a>	Grants permission to update a variable	Write	<a href="#">variable*</a>		

## Resource types defined by Amazon Fraud Detector

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">batch-prediction</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:batch-prediction/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">detector</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:detector/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">detector-version</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:detector-version/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">entity-type</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:entity-type/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">external-model</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:external-model/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">event-type</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:event-type/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">label</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:label/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:model/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model-version</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:model-version/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">outcome</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:outcome/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:rule/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">variable</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:variable/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">batch-import</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:batch-import/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">list</a>	arn:\${Partition}:frauddetector:\${Region}:\${Account}:list/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Fraud Detector

Amazon Fraud Detector defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Free Tier

AWS Free Tier (service prefix: `freetier`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Free Tier](#)
- [Resource types defined by AWS Free Tier](#)
- [Condition keys for AWS Free Tier](#)

## Actions defined by AWS Free Tier

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountActivity</a>	Grants permission to get a specific activity record	Read			
<a href="#">GetAccountPlanState</a>	Grants permission to get all of the information related to the state of the account plan related to Free Tier	Read			
<a href="#">GetFreeTierAlertPreference</a> [permission only]	Grants permission to get free tier alert preference (email address)	Read			
<a href="#">GetFreeTierUsage</a>	Grants permission to get free tier usage limits and MTD usage status	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccountActivities</a>	Grants permission to list available activities	List			
<a href="#">PutFreeTierAlertPreference</a> [permission only]	Grants permission to set free tier alert preference (email address)	Write			
<a href="#">UpgradeAccountPlan</a>	Grants permission to trigger an upgrade of account plan	Write			

## Resource types defined by AWS Free Tier

AWS Free Tier does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Free Tier, specify "Resource": "\*" in your policy.

## Condition keys for AWS Free Tier

Free Tier has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon FreeRTOS

Amazon FreeRTOS (service prefix: `freertos`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon FreeRTOS](#)
- [Resource types defined by Amazon FreeRTOS](#)
- [Condition keys for Amazon FreeRTOS](#)

## Actions defined by Amazon FreeRTOS

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSoftwareConfiguration</a>	Grants permission to create a software configuration	Write	<a href="#">configuration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSubscription</a>	Grants permission to create a subscription for FreeRTOS extended maintenance plan (EMP)	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteSoftwareConfiguration</a>	Grants permission to delete the software configuration	Write	<a href="#">configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeHardwarePlatform</a>	Grants permission to describe the hardware platform	Read			
<a href="#">DescribeSoftwareConfiguration</a>	Grants permission to describe the software configuration	Read	<a href="#">configuration*</a>		
<a href="#">DescribeSubscription</a>	Grants permission to describes the subscription for FreeRTOS extended maintenance plan (EMP)	Read	<a href="#">subscription*</a>		
<a href="#">GetEmpPatchUrl</a>	Grants permission to get URL for software patch-release, patch-diff and release notes under FreeRTOS extended maintenance plan (EMP)	Read			
<a href="#">GetSoftwareURL</a>	Grants permission to get the URL for Amazon FreeRTOS software download	Read			
<a href="#">GetSoftwareURLForConfiguration</a>	Grants permission to get the URL for Amazon FreeRTOS software download based on the configuration	Read			
<a href="#">GetSubscriptionBillingAmount</a>	Grants permission to fetch the subscription billing amount for FreeRTOS extended maintenance plan (EMP)	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFreeRTOSVersions</a>	Grants permission to lists versions of AmazonFreeRTOS	List			
<a href="#">ListHardwarePlatforms</a>	Grants permission to list the hardware platforms	List			
<a href="#">ListHardwareVendors</a>	Grants permission to list the hardware vendors	List			
<a href="#">ListSoftwareConfigurations</a>	Grants permission to lists the software configurations	List			
<a href="#">ListSoftwarePatches</a>	Grants permission to list software patches of subscription for FreeRTOS extended maintenance plan (EMP)	List			
<a href="#">ListSubscriptionEmails</a>	Grants permission to list the subscription emails for FreeRTOS extended maintenance plan (EMP)	List			
<a href="#">ListSubscriptions</a>	Grants permission to list the subscriptions for FreeRTOS extended maintenance plan (EMP)	List			
<a href="#">UpdateEmailRecipients</a>	Grants permission to update list of subscription email address for FreeRTOS extended maintenance plan (EMP)	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSoftwareConfiguration</a>	Grants permission to update the software configuration	Write	<a href="#">configuration*</a>		
<a href="#">VerifyEmail</a>	Grants permission to verify the email for FreeRTOS extended maintenance plan (EMP)	Write			

## Resource types defined by Amazon FreeRTOS

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">configuration</a>	arn:\${Partition}:freertos:\${Region}:\${Account}:configuration/\${ConfigurationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subscription</a>	arn:\${Partition}:freertos:\${Region}:\${Account}:subscription/\${SubscriptionID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon FreeRTOS

Amazon FreeRTOS defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key present in the request that the user makes to Amazon FreeRTOS	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key component attached to an Amazon FreeRTOS resource	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names associated with the resource in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon FSx

Amazon FSx (service prefix: `fsx`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon FSx](#)
- [Resource types defined by Amazon FSx](#)
- [Condition keys for Amazon FSx](#)

## Actions defined by Amazon FSx

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateFileGateway</a> [permission only]	Grants permission to associate a File Gateway instance with an Amazon FSx for Windows File Server file system	Write	<a href="#">file-system*</a>		
<a href="#">AssociateFileSystemAliases</a>	Grants permission to associate DNS aliases with an Amazon FSx for Windows File Server file system	Write	<a href="#">file-system*</a>		
<a href="#">BypassSnapLockEnterpriseRetention</a> [permission only]	Grants permission to allow deletion of an FSx for ONTAP SnapLock Enterprise volume that contains WORM (write once, read many) files with active retention periods	Permissions management	<a href="#">volume*</a>		
<a href="#">CancelDataRepositoryTask</a>	Grants permission to cancel a data repository task	Write	<a href="#">task*</a>		
<a href="#">CopyBackup</a>	Grants permission to copy a backup	Write	<a href="#">backup*</a>		fsx:TagResource
				<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CopySnapshotAndUpdateVolume</a>	Grants permission to update an existing volume by using a snapshot from another Amazon FSx for OpenZFS file system	Write	<a href="#">snapshot*</a> <a href="#">volume*</a>		
<a href="#">CreateAndAttachS3AccessPoint</a>	Grants permission to create and attach a S3 Access Point to a FSx File System	Write	<a href="#">volume</a>		s3:CreateAccessPoint s3:GetAccessPoint s3:PutAccessPointPolicy
<a href="#">CreateBackup</a>	Grants permission to create a new backup of an Amazon FSx file system or an Amazon FSx volume	Write	<a href="#">backup*</a> <a href="#">file-system</a> <a href="#">volume</a>		fsx:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataRepositoryAssociation</a>	Grants permission to create a new data repository association for an Amazon FSx for Lustre file system	Write	<a href="#">association*</a>  <a href="#">file-system*</a>	<a href="#">fsx:NfsDataRepositoryAuthenticationEnabled</a>  <a href="#">fsx:NfsDataRepositoryEncryptionInTransitEnabled</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	fsx:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataRepositoryTask</a>	Grants permission to create a new data repository task for an Amazon FSx for Lustre file system	Write	<a href="#">file-system*</a> <a href="#">task*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	fsx:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFileCache</a>	Grants permission to create a new, empty, Amazon file cache	Write	<a href="#">file-cache*</a>		ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs ec2:GetSecurityGroupsForVpc fsx:CreateDataRepositoryAssociation fsx:TagResource logs:CreateLogGroup logs:CreateLogStream logs:PutLogEvents



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:ListBucket
			<a href="#">association</a>	<a href="#">fsx:NfsDataRepositoryEncryptionInTransitEnabled</a> <a href="#">fsx:NfsDataRepositoryAuthenticationEnabled</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFileSystem</a>	Grants permission to create a new, empty, Amazon FSx file system	Write	<a href="#">file-system*</a>		ec2:GetSecurityGroupsForVpc  fsx:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFileSystemFromBackup</a>	Grants permission to create a new Amazon FSx file system from an existing backup	Write	<a href="#">backup*</a>		ec2:GetSecurityGroupsForVpc  fsx:TagResource
			<a href="#">file-system*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSnapshot</a>	Grants permission to create a new snapshot on a volume	Write	<a href="#">snapshot*</a>  <a href="#">volume*</a>		fsx:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStorageVirtualMachine</a>	Grants permission to create a new storage virtual machine in an Amazon FSx for Ontap file system	Write	<a href="#">file-system*</a>		fsx:TagResource
			<a href="#">storage-virtual-machine*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateVolume</a>	Grants permission to create a new volume	Write	<a href="#">volume*</a>		fsx:TagResource
			<a href="#">snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">fsx:StorageVirtualMachineId</a> <a href="#">fsx:ParentVolumeId</a>	
<a href="#">CreateVolumeFromBackup</a>	Grants permission to create a new volume from backup	Write	<a href="#">backup*</a>  <a href="#">storage-virtual-machine*</a>  <a href="#">volume*</a>		fsx:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBackup</a>	Grants permission to delete a backup, deleting its contents. After deletion, the backup no longer exists, and its data is no longer available	Write	<a href="#">backup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">fsx:StorageVirtualMachineId</a>	
<a href="#">DeleteDataRepositoryAssociation</a>	Grants permission to delete a data repository association	Write	<a href="#">association*</a>		
<a href="#">DeleteFileCache</a>	Grants permission to delete a file cache, deleting its contents	Write	<a href="#">file-cache*</a>		<a href="#">fsx:DeleteDataRepositoryAssociation</a>
			<a href="#">association</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteFileSystem</a>	Grants permission to delete a file system, deleting its contents and any existing automatic backups of the file system	Write	<a href="#">file-system*</a>  <a href="#">backup</a>		fsx:CreateBackup  fsx:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to manage cross-account sharing of FSx volumes through AWS Resource Access Manager (RAM). PutResourcePolicy and GetResourcePolicy are also required	Permissions management	<a href="#">volume*</a>		
<a href="#">DeleteSnapshot</a>	Grants permission to delete a snapshot on a volume	Write	<a href="#">snapshot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteStorageVirtualMachine</a>	Grants permission to delete a storage virtual machine, deleting its contents	Write	<a href="#">storage-virtual-machine*</a>		
<a href="#">DeleteVolume</a>	Grants permission to delete a volume, deleting its contents and any existing automatic backups of the volume	Write	<a href="#">volume*</a>		fsx:TagResource
			<a href="#">backup</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">fsx:StorageVirtualMachineId</a>	
				<a href="#">fsx:ParentVolumeId</a>	
<a href="#">DescribeAssociatedFileGateways</a> [permission only]	Grants permission to describe the File Gateway instances associated with an Amazon FSx for Windows File Server file system	Read	<a href="#">file-system*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBackups</a>	Grants permission to return the descriptions of all backups owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			
<a href="#">DescribeDataRepositoryAssociations</a>	Grants permission to return the descriptions of all data repository associations owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			
<a href="#">DescribeDataRepositoryTasks</a>	Grants permission to return the descriptions of all data repository tasks owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			
<a href="#">DescribeFileCaches</a>	Grants permission to return the descriptions of all file caches owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFileSystemAliases</a>	Grants permission to return the description of all DNS aliases owned by your Amazon FSx for Windows File Server file system	Read	<a href="#">file-system*</a>		
<a href="#">DescribeFileSystems</a>	Grants permission to return the descriptions of all file systems owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			
<a href="#">DescribeS3AccessPointAttachments</a>	Grants permission to return the descriptions of S3 Access Point Attachments	Read			
<a href="#">DescribeSharedVpcConfiguration</a>	Grants permission to return the descriptions of whether FSx route table updates from participant accounts are allowed in your account	Read			
<a href="#">DescribeSnapshots</a>	Grants permission to return the descriptions of all snapshots owned by your AWS account in the AWS Region of the endpoint you're calling	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStorageVirtualMachines</a>	Grants permission to return the descriptions of all storage virtual machines owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			
<a href="#">DescribeVolumes</a>	Grants permission to return the descriptions of all volumes owned by your AWS account in the AWS Region of the endpoint that you're calling	Read			
<a href="#">DetachAndDeleteS3AccessPoint</a>	Grants permission to detach an S3 Access Point from an Amazon FSx File System and delete the S3 Access Point	Write	<a href="#">volume</a>		s3:DeleteAccessPoint
<a href="#">DisassociateFileGateway</a> [permission only]	Grants permission to disassociate a File Gateway instance from an Amazon FSx for Windows File Server file system	Write	<a href="#">file-system*</a>		
<a href="#">DisassociateFileSystemAliases</a>	Grants permission to disassociate file system aliases with an Amazon FSx for Windows File Server file system	Write	<a href="#">file-system*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to manage cross-account sharing of FSx volumes through AWS Resource Access Manager (RAM). PutResourcePolicy and DeleteResourcePolicy are also required	Permissions management	<a href="#">volume*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an Amazon FSx resource	Read	<a href="#">association</a>  <a href="#">backup</a>  <a href="#">file-cache</a>  <a href="#">file-system</a>  <a href="#">snapshot</a>  <a href="#">storage-virtual-machine</a>  <a href="#">task</a>  <a href="#">volume</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ManageBackupPrincipalAssociations</a> [permission only]	Grants permission to manage backup principal associations through AWS Backup	Permissions management	<a href="#">backup*</a>		
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to manage cross-account sharing of FSx volumes through AWS Resource Access Manager (RAM). DeleteResourcePolicy and GetResourcePolicy are also required	Permissions management	<a href="#">volume*</a>		
<a href="#">ReleaseFileSystemNfsV3Locks</a>	Grants permission to release file system NFS V3 locks	Write	<a href="#">file-system*</a>		
<a href="#">RestoreVolumeFromSnapshot</a>	Grants permission to restore volume state from a snapshot	Write	<a href="#">snapshot*</a> <a href="#">volume*</a>		
<a href="#">StartMisconfiguredStateRecovery</a>	Grants permission to start misconfigured state recovery	Write	<a href="#">file-system*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#"><u>TagResource</u></a>	Grants permission to tag an Amazon FSx resource	Tagging	<a href="#"><u>association</u></a> <a href="#"><u>backup</u></a> <a href="#"><u>file-cache</u></a> <a href="#"><u>file-system</u></a> <a href="#"><u>snapshot</u></a> <a href="#"><u>storage-virtual-machine</u></a> <a href="#"><u>task</u></a>	<a href="#"><u>fsx:NfsDataRepositoryAuthenticationEnabled</u></a> <a href="#"><u>fsx:NfsDataRepositoryEncryptionInTransitEnabled</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>	<a href="#">fsx:ParentVolumeId</a> <a href="#">fsx:StorageVirtualMachineId</a>	
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from an Amazon FSx resource	Tagging	<a href="#">association</a>		
			<a href="#">backup</a>		
			<a href="#">file-cache</a>		
			<a href="#">file-system</a>		
			<a href="#">snapshot</a>		
			<a href="#">storage-virtual-machine</a>		
			<a href="#">task</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">volume</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDataRepositoryAssociation</a>	Grants permission to update data repository association configuration	Write	<a href="#">association*</a>		
<a href="#">UpdateFileCache</a>	Grants permission to update file cache configuration	Write	<a href="#">file-cache*</a>		
<a href="#">UpdateFileSystem</a>	Grants permission to update file system configuration	Write	<a href="#">file-system*</a>		
<a href="#">UpdateSharedVpcConfiguration</a>	Grants permission to enable or disable FSx route table updates from participant accounts in your account	Write			
<a href="#">UpdateSnapshot</a>	Grants permission to update snapshot configuration	Write	<a href="#">snapshot*</a>		
<a href="#">UpdateStorageVirtualMachine</a>	Grants permission to update storage virtual machine configuration	Write	<a href="#">storage-virtual-machine*</a>		
<a href="#">UpdateVolume</a>	Grants permission to update volume configuration	Write	<a href="#">volume*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">fsx:StorageVirtualMachined</a> <a href="#">fsx:ParentVolumeId</a>	

## Resource types defined by Amazon FSx

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

Amazon FSx for Windows File Server, Lustre, and Ontap share some of the same resource types, with the same ARN format for each.

Resource types	ARN	Condition keys
<a href="#">file-system</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:file-system/\${FileSystemId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">file-cache</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:file-cache/\${FileCacheId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">backup</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:backup/\${BackupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">storage-virtual-machine</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:storage-virtual-machine/\${FileSystemId}/\${StorageVirtualMachineId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">task</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:task/\${TaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">association</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:association/\${FileSystemIdOrFileCacheId}/\${DataRepositoryAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">volume</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:volume/\${FileSystemId}/\${VolumeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">snapshot</a>	arn:\${Partition}:fsx:\${Region}:\${Account}:snapshot/\${VolumeId}/\${SnapshotId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon FSx

Amazon FSx defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">fsx:IsBackupCopyDestination</a>	Filters access by whether the backup is a destination backup for a CopyBackup operation	Bool
<a href="#">fsx:IsBackupCopySource</a>	Filters access by whether the backup is a source backup for a CopyBackup operation	Bool
<a href="#">fsx:NfsDataRepositoryAuthenticationEnabled</a>	Filters access by NFS data repositories which support authentication	Bool
<a href="#">fsx:NfsDataRepositoryEncryptionInTransitEnabled</a>	Filters access by NFS data repositories which support encryption-in-transit	Bool
<a href="#">fsx:ParentVolumeId</a>	Filters access by the containing parent volume for mutating volume operations	String
<a href="#">fsx:StorageVirtualMachineId</a>	Filters access by the containing storage virtual machine for a volume for mutating volume operations	String

## Actions, resources, and condition keys for Amazon GameLift Servers

Amazon GameLift Servers (service prefix: `gameLift`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon GameLift Servers](#)
- [Resource types defined by Amazon GameLift Servers](#)
- [Condition keys for Amazon GameLift Servers](#)

## Actions defined by Amazon GameLift Servers

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptMatch</a>	Grants permission to register player acceptance or rejection of a proposed FlexMatch match	Write			
<a href="#">ClaimGameServer</a>	Grants permission to locate and reserve a game server to host a new game session	Write	<a href="#">gameServerGroup*</a>		
<a href="#">CreateAlias</a>	Grants permission to define a new alias for a fleet	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	gamelift: TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateBuild</a>	Grants permission to create a new game build using files stored in an Amazon S3 bucket	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	gamelift:TagResource  iam:PassRole  s3:GetObject
<a href="#">CreateContainerFleet</a>	Grants permission to create a new container fleet of computing resources to run your game servers	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:DescribeAvailabilityZones  ec2:DescribeRegions  gamelift:TagResource  iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateContainerGroupDefinition</a>	Grants permission to create a new container group definition using images stored in an Amazon ECR repository	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ecr:BatchGetImage  ecr:DescribeImages  ecr:GetAuthorizationToken  ecr:GetDownloadUrlForLayer  gamelift:TagResource
<a href="#">CreateFleet</a>	Grants permission to create a new fleet of computing resources to run your game servers	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:DescribeAvailabilityZones  ec2:DescribeRegions  gamelift:TagResource  iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFleetLocations</a>	Grants permission to specify additional locations for a fleet	Write	<a href="#">containerFleet</a>  <a href="#">fleet</a>		ec2:DescribeAvailabilityZones  ec2:DescribeRegions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGameServerGroup</a>	Grants permission to create a new game server group, set up a corresponding Auto Scaling group, and launch instances to host game servers	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	autoscaling:CreateAutoScalingGroup  autoscaling:DescribeAutoScalingGroups  autoscaling:PutLifecycleHook  autoscaling:PutScalingPolicy  ec2:DescribeAvailabilityZones  ec2:DescribeSubnets  events:PutRule



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					events:PutTargets  gamelift:TagResource  iam:PassRole
<a href="#">CreateGameSession</a>	Grants permission to start a new game session on a specified fleet	Write			
<a href="#">CreateGameSessionQueue</a>	Grants permission to set up a new queue for processing game session placement requests	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	gamelift:TagResource
<a href="#">CreateLocation</a>	Grants permission to define a new location for a fleet	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	gamelift:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMatchmakingConfiguration</a>	Grants permission to create a new FlexMatch matchmaker	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	gamelift:TagResource
<a href="#">CreateMatchmakingRuleSet</a>	Grants permission to create a new matchmaking rule set for FlexMatch	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	gamelift:TagResource
<a href="#">CreatePlayerSession</a>	Grants permission to reserve an available game session slot for a player	Write			
<a href="#">CreatePlayerSessions</a>	Grants permission to reserve available game session slots for multiple players	Write			
<a href="#">CreateScript</a>	Grants permission to create a new Realtime Servers script	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	gamelift:TagResource iam:PassRole s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcPeeringAuthorization</a>	Grants permission to allow GameLift to create or delete a peering connection between a GameLift fleet VPC and a VPC on another AWS account	Write			ec2:AcceptVpcPeeringConnection ec2:AuthorizeSecurityGroupEgress ec2:AuthorizeSecurityGroupIngress ec2:CreateRoute ec2>DeleteRoute ec2:DescribeRouteTables ec2:DescribeSecurityGroups ec2:RevokeSecurityGroupEgress

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:RevokeSecurityGroupIngress
<a href="#">CreateVpcPeeringConnection</a>	Grants permission to establish a peering connection between your GameLift fleet VPC and a VPC on another account	Write			
<a href="#">DeleteAlias</a>	Grants permission to delete an alias	Write	<a href="#">alias*</a>		
<a href="#">DeleteBuild</a>	Grants permission to delete a game build	Write	<a href="#">build*</a>		
<a href="#">DeleteContainerFleet</a>	Grants permission to delete a container fleet	Write	<a href="#">containerFleet*</a>		
<a href="#">DeleteContainerGroupDefinition</a>	Grants permission to delete a container group definition	Write	<a href="#">containerGroupDefinition*</a>		
<a href="#">DeleteFleet</a>	Grants permission to delete an empty fleet	Write	<a href="#">fleet*</a>		
<a href="#">DeleteFleetLocations</a>	Grants permission to delete locations for a fleet	Write	<a href="#">containerFleet</a> <a href="#">fleet</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteGameServerGroup</a>	Grants permission to permanently delete a game server group and terminate FleetIQ activity for the corresponding Auto Scaling group	Write	<a href="#">gameServerGroup*</a>		autoscaling:DeleteAutoScalingGroup  autoscaling:DescribeAutoScalingGroups  autoscaling:ExitStandby  autoscaling:ResumeProcesses  autoscaling:SetInstanceProtection  autoscaling:UpdateAutoScalingGroup
<a href="#">DeleteGameSessionQueue</a>	Grants permission to delete an existing game session queue	Write	<a href="#">gameSessionQueue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLocation</a>	Grants permission to delete a location	Write	<a href="#">location*</a>		
<a href="#">DeleteMatchmakingConfiguration</a>	Grants permission to delete an existing FlexMatch matchmaker	Write	<a href="#">matchmakingConfiguration*</a>		
<a href="#">DeleteMatchmakingRuleSet</a>	Grants permission to delete an existing FlexMatch matchmaking rule set	Write	<a href="#">matchmakingRuleSet*</a>		
<a href="#">DeleteScalingPolicy</a>	Grants permission to delete a set of auto-scaling rules	Write	<a href="#">containerFleet</a>		
			<a href="#">fleet</a>		
<a href="#">DeleteScript</a>	Grants permission to delete a Realtime Servers script	Write	<a href="#">script*</a>		
<a href="#">DeleteVpcPeeringAuthorization</a>	Grants permission to cancel a VPC peering authorization	Write			
<a href="#">DeleteVpcPeeringConnection</a>	Grants permission to remove a peering connection between VPCs	Write			
<a href="#">DeregisterCompute</a>	Grants permission to deregister a compute against a fleet	Write	<a href="#">fleet*</a>		
<a href="#">DeregisterGameServer</a>	Grants permission to remove a game server from a game server group	Write	<a href="#">gameServerGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAlias</a>	Grants permission to retrieve properties for an alias	Read	<a href="#">alias*</a>		
<a href="#">DescribeBuild</a>	Grants permission to retrieve properties for a game build	Read	<a href="#">build*</a>		
<a href="#">DescribeCompute</a>	Grants permission to retrieve information for a compute in a fleet	Read	<a href="#">containerFleet</a>		
			<a href="#">fleet</a>		
<a href="#">DescribeContainerFleet</a>	Grants permission to retrieve the properties of an existing container fleet	Read	<a href="#">containerFleet*</a>		
<a href="#">DescribeContainerGroupDefinition</a>	Grants permission to retrieve the properties of an existing container group definition	Read	<a href="#">containerGroupDefinition*</a>		
<a href="#">DescribeEC2InstanceLimits</a>	Grants permission to retrieve the maximum allowed and current usage for EC2 instance types	Read			
<a href="#">DescribeFleetAttributes</a>	Grants permission to retrieve general properties, including status, for fleets	Read			
<a href="#">DescribeFleetCapacity</a>	Grants permission to retrieve the current capacity settings for managed fleets	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFleetDeployment</a>	Grants permission to retrieve the properties of an existing fleet deployment	Read	<a href="#">containerFleet*</a>		
<a href="#">DescribeFleetEvents</a>	Grants permission to retrieve entries from a fleet's event log	Read	<a href="#">containerFleet</a>		
<a href="#">DescribeFleetLocationAttributes</a>	Grants permission to retrieve general properties, including statuses, for a fleet's locations	Read	<a href="#">containerFleet</a>		
<a href="#">DescribeFleetLocationCapacity</a>	Grants permission to retrieve the current capacity setting for a fleet's location	Read	<a href="#">containerFleet</a>		
<a href="#">DescribeFleetLocationUtilization</a>	Grants permission to retrieve utilization statistics for fleet's location	Read	<a href="#">fleet*</a>		
<a href="#">DescribeFleetPortSettings</a>	Grants permission to retrieve the inbound connection permissions for a fleet	Read	<a href="#">fleet*</a>		
<a href="#">DescribeFleetUtilization</a>	Grants permission to retrieve utilization statistics for fleets	Read			
<a href="#">DescribeGameServer</a>	Grants permission to retrieve properties for a game server	Read	<a href="#">gameServerGroup*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeGameServerGroup</a>	Grants permission to retrieve properties for a game server group	Read	<a href="#">gameServerGroup*</a>		
<a href="#">DescribeGameServerInstances</a>	Grants permission to retrieve the status of EC2 instances in a game server group	Read	<a href="#">gameServerGroup*</a>		
<a href="#">DescribeGameSessionDetails</a>	Grants permission to retrieve properties for game sessions in a fleet, including the protection policy	Read			
<a href="#">DescribeGameSessionPlacement</a>	Grants permission to retrieve details of a game session placement request	Read			
<a href="#">DescribeGameSessionQueues</a>	Grants permission to retrieve properties for game session queues	Read			
<a href="#">DescribeGameSessions</a>	Grants permission to retrieve properties for game sessions in a fleet	Read			
<a href="#">DescribeInstances</a>	Grants permission to retrieve information about instances in a managed fleet	Read	<a href="#">containerFleet</a> <a href="#">fleet</a>		
<a href="#">DescribeMatchmaking</a>	Grants permission to retrieve details of matchmaking tickets	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMatchmakingConfigurations</a>	Grants permission to retrieve properties for FlexMatch matchmakers	Read			
<a href="#">DescribeMatchmakingRuleSets</a>	Grants permission to retrieve properties for FlexMatch matchmaking rule sets	Read			
<a href="#">DescribePlayerSessions</a>	Grants permission to retrieve properties for player sessions in a game session	Read			
<a href="#">DescribeRuntimeConfiguration</a>	Grants permission to retrieve the current runtime configuration for a fleet	Read	<a href="#">fleet*</a>		
<a href="#">DescribeScalingPolicies</a>	Grants permission to retrieve all scaling policies that are applied to a fleet	Read	<a href="#">container</a>		
			<a href="#">Fleet</a>		
			<a href="#">fleet</a>		
<a href="#">DescribeScript</a>	Grants permission to retrieve properties for a Realtime Servers script	Read	<a href="#">script*</a>		
<a href="#">DescribeVpcPeeringAuthorizations</a>	Grants permission to retrieve valid VPC peering authorizations	Read			
<a href="#">DescribeVpcPeeringConnections</a>	Grants permission to retrieve details on active or pending VPC peering connections	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetComputeAccess</a>	Grants permission to retrieve credentials to remotely access a compute in a managed fleet	Read	<a href="#">container Fleet</a> <a href="#">fleet</a>		
<a href="#">GetComputeAuthToken</a>	Grants permission to retrieve an authentication token that allows processes on a compute to send requests to the Amazon GameLift service	Read	<a href="#">container Fleet</a> <a href="#">fleet</a>		
<a href="#">GetGameSessionLogUrl</a>	Grants permission to retrieve the location of stored logs for a game session	Read			
<a href="#">GetInstanceAccess</a>	Grants permission to request remote access to a specified fleet instance	Read	<a href="#">fleet*</a>		
<a href="#">GetPlayerConnectionDetails</a>	Grants permission to retrieve player connection endpoints and player gateway tokens for a game session	Read			
<a href="#">ListAliases</a>	Grants permission to retrieve all aliases that are defined in the current Region	List			
<a href="#">ListBuilds</a>	Grants permission to retrieve all game build in the current Region	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCompute</a>	Grants permission to retrieve all compute resources in the current Region	List	<a href="#">container Fleet</a> <a href="#">fleet</a>		
<a href="#">ListContainerFleets</a>	Grants permission to retrieve the properties of all existing container fleets in the current Region	List			
<a href="#">ListContainerGroupDefinitions</a>	Grants permission to retrieve the properties of all versions of an existing container group definition	List	<a href="#">container GroupDefinition*</a>		
<a href="#">ListContainerGroupDefinitions</a>	Grants permission to retrieve the properties of all existing container group definitions in the current Region	List			
<a href="#">ListFleetDeployments</a>	Grants permission to retrieve the properties of all existing fleet deployments in the current Region	List			
<a href="#">ListFleets</a>	Grants permission to retrieve a list of fleet IDs for all fleets in the current Region	List			
<a href="#">ListGameServerGroups</a>	Grants permission to retrieve all game server groups that are defined in the current Region	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGameServers</a>	Grants permission to retrieve all game servers that are currently running in a game server group	List	<a href="#">gameServerGroup*</a>		
<a href="#">ListLocations</a>	Grants permission to retrieve all locations in this account	List			
<a href="#">ListScripts</a>	Grants permission to retrieve properties for all Realtime Servers scripts in the current region	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve tags for GameLift resources	Read	<a href="#">alias</a>		
			<a href="#">build</a>		
			<a href="#">containerFleet</a>		
			<a href="#">containerGroupDefinition</a>		
			<a href="#">fleet</a>		
			<a href="#">gameServerGroup</a>		
			<a href="#">gameSessionQueue</a>		
			<a href="#">location</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">matchmakingConfiguration</a>		
			<a href="#">matchmakingRuleSet</a>		
			<a href="#">script</a>		
<a href="#">PutScalingPolicy</a>	Grants permission to create or update a fleet auto-scaling policy	Write	<a href="#">containerFleet</a>		
			<a href="#">fleet</a>		
<a href="#">RegisterCompute</a>	Grants permission to register a compute against a fleet	Write	<a href="#">fleet*</a>		
<a href="#">RegisterGameServer</a>	Grants permission to notify GameLift FleetIQ when a new game server is ready to host gameplay	Write	<a href="#">gameServerGroup*</a>		
<a href="#">RequestUploadCredentials</a>	Grants permission to retrieve fresh upload credentials to use when uploading a new game build	Read	<a href="#">build*</a>		
<a href="#">ResolveAlias</a>	Grants permission to retrieve the fleet ID associated with an alias	Read	<a href="#">alias*</a>		
<a href="#">ResumeGameServerGroup</a>	Grants permission to reinstate suspended FleetIQ activity for a game server group	Write	<a href="#">gameServerGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchGameSessions</a>	Grants permission to retrieve game sessions that match a set of search criteria	Read			
<a href="#">StartFleetActions</a>	Grants permission to resume auto-scaling activity on a fleet after it was suspended with StopFleetActions()	Write	<a href="#">container Fleet</a>		
			<a href="#">fleet</a>		
<a href="#">StartGameSessionPlacement</a>	Grants permission to send a game session placement request to a game session queue	Write	<a href="#">gameSessionQueue*</a>		
<a href="#">StartMatchBackfill</a>	Grants permission to request FlexMatch matchmaking to fill available player slots in an existing game session	Write			
<a href="#">StartMatchmaking</a>	Grants permission to request FlexMatch matchmaking for one or a group of players and initiate game session placement	Write			
<a href="#">StopFleetActions</a>	Grants permission to suspend auto-scaling activity on a fleet	Write	<a href="#">container Fleet</a>		
			<a href="#">fleet</a>		
<a href="#">StopGameSessionPlacement</a>	Grants permission to cancel a game session placement request that is in progress	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopMatchmaking</a>	Grants permission to cancel a matchmaking or match backfill request that is in progress	Write			
<a href="#">SuspendGameServerGroup</a>	Grants permission to temporarily stop FleetIQ activity for a game server group	Write	<a href="#">gameServerGroup*</a>		
<a href="#">TagResource</a>	Grants permission to tag GameLift resources	Tagging	<a href="#">alias</a> <a href="#">build</a> <a href="#">containerFleet</a> <a href="#">containerGroupDefinition</a> <a href="#">fleet</a> <a href="#">gameServerGroup</a> <a href="#">gameSessionQueue</a> <a href="#">location</a> <a href="#">matchmakingConfiguration</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">matchmakingRuleSet</a>		
			<a href="#">script</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TerminateGameSession</a>	Grants permission to shut down an existing game session	Write			
<a href="#">UntagResource</a>	Grants permission to untag GameLift resources	Tagging	<a href="#">alias</a>		
			<a href="#">build</a>		
			<a href="#">containerFleet</a>		
			<a href="#">containerGroupDefinition</a>		
			<a href="#">fleet</a>		
			<a href="#">gameServerGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">gameSessionQueue</a>		
			<a href="#">location</a>		
			<a href="#">matchmakingConfiguration</a>		
			<a href="#">matchmakingRuleSet</a>		
			<a href="#">script</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAlias</a>	Grants permission to update the properties of an existing alias	Write	<a href="#">alias*</a>		
<a href="#">UpdateBuild</a>	Grants permission to update an existing build's metadata	Write	<a href="#">build*</a>		
<a href="#">UpdateContainerFleet</a>	Grants permission to update an existing container fleet	Write	<a href="#">containerFleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContainerGroupDefinition</a>	Grants permission to update the properties of an existing container group definition	Write	<a href="#">containerGroupDefinition*</a>		ecr:BatchGetImage ecr:DescribeImages ecr:GetAuthorizationToken ecr:GetDownloadUrlForLayer
<a href="#">UpdateFleetAttributes</a>	Grants permission to update the general properties of an existing fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateFleetCapacity</a>	Grants permission to adjust a managed fleet's capacity settings	Write	<a href="#">containerFleet</a> <a href="#">fleet</a>		
<a href="#">UpdateFleetPortSettings</a>	Grants permission to adjust a fleet's port settings	Write	<a href="#">fleet*</a>		
<a href="#">UpdateGameServer</a>	Grants permission to change game server properties, health status, or utilization status	Write	<a href="#">gameServerGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateGameServerGroup</a>	Grants permission to update properties for game server group, including allowed instance types	Write	<a href="#">gameServerGroup*</a>		iam:PassRole
<a href="#">UpdateGameSession</a>	Grants permission to update the properties of an existing game session	Write			
<a href="#">UpdateGameSessionQueue</a>	Grants permission to update properties of an existing game session queue	Write	<a href="#">gameSessionQueue*</a>		
<a href="#">UpdateMatchmakingConfiguration</a>	Grants permission to update properties of an existing FlexMatch matchmaking configuration	Write	<a href="#">matchmakingConfiguration*</a>		
<a href="#">UpdateRuntimeConfiguration</a>	Grants permission to update how server processes are configured on instances in an existing fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateScript</a>	Grants permission to update the metadata and content of an existing Realtime Servers script	Write	<a href="#">script*</a>		iam:PassRole s3:GetObject
<a href="#">ValidateMatchmakingRuleSet</a>	Grants permission to validate the syntax of a FlexMatch matchmaking rule set	Read			

## Resource types defined by Amazon GameLift Servers

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">alias</a>	arn:\${Partition}:gamelift:\${Region}::alias/\${AliasId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">build</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:build/\${BuildId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">containerGroupDefinition</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:containergroupdefinition/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">containerFleet</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:containerfleet/\${FleetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">fleet</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:fleet/\${FleetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">gameServerGroup</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:gameservergroup/\${GameServerGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">gameSessionQueue</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:gamesessionqueue/\${GameSessionQueueName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">location</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:location/\${LocationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">matchmakingConfiguration</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:matchmakingconfiguration/\${MatchmakingConfigurationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">matchmakingRuleSet</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:matchmakingruleset/\${MatchmakingRuleSetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">script</a>	arn:\${Partition}:gamelift:\${Region}:\${Account}:script/\${ScriptId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon GameLift Servers

Amazon GameLift Servers defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon GameLift Streams

Amazon GameLift Streams (service prefix: `gameliftstreams`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon GameLift Streams](#)
- [Resource types defined by Amazon GameLift Streams](#)
- [Condition keys for Amazon GameLift Streams](#)

### Actions defined by Amazon GameLift Streams

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddStreamGroupLocations</a>	Grants permission to attach a StreamGroup remote location	Write	<a href="#">streamgroup*</a>		ec2:DescribeRegions
<a href="#">AssociateApplications</a>	Grants permission to associate Applications to a StreamGroup	Write	<a href="#">application*</a> <a href="#">streamgroup*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	gamelifts treams:TagResource s3:GetObject s3:ListBucket
<a href="#">CreateStreamGroup</a>	Grants permission to create a StreamGroup	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	gamelifts treams:TagResource
<a href="#">CreateStreamSessionConnection</a>	Grants permission to create a stream session connection	Write	<a href="#">streamgroup*</a>		
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">application*</a>		
<a href="#">DeleteStreamGroup</a>	Grants permission to delete a StreamGroup	Write	<a href="#">streamgroup*</a>		
<a href="#">DisassociateApplications</a>	Grants permission to disassociate Applications from a StreamGroup	Write	<a href="#">application*</a> <a href="#">streamgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportStreamSessionFiles</a>	Grants permission to export stream session files that your application generates	Write	<a href="#">stream group*</a>		s3:PutObject
<a href="#">GetApplication</a>	Grants permission to get an application	Read	<a href="#">application*</a>		
<a href="#">GetStreamGroup</a>	Grants `permission` to get a StreamGroup	Read	<a href="#">stream group*</a>		
<a href="#">GetStreamSession</a>	Grants permission to get a stream session	Read	<a href="#">stream group*</a>		
<a href="#">ListApplications</a>	Grants permission to list applications	List			
<a href="#">ListStreamGroups</a>	Grants permission to list StreamGroups	List			
<a href="#">ListStreamSessions</a>	Grants permission to list stream sessions	Read	<a href="#">stream group*</a>		
<a href="#">ListStreamSessionsByAccount</a>	Grants permission to list stream sessions	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">application</a> <a href="#">stream group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveStreamGroupLocations</a>	Grants permission to detach a StreamGroup remote location	Write	<a href="#">stream group*</a>		
<a href="#">StartStreamSession</a>	Grants permission to create a stream session	Write	<a href="#">stream group*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">application</a>		
			<a href="#">stream group</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">TerminateStreamSession</a>	Grants permission to terminate a stream session	Write	<a href="#">stream group*</a>		
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">application</a>		
			<a href="#">stream group</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write	<a href="#">application*</a>		
<a href="#">UpdateStreamGroup</a>	Grants permission to update a StreamGroup	Write	<a href="#">streamgroup*</a>		

## Resource types defined by Amazon GameLift Streams

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:gameliftstreams:\${Region}:\${Account}:application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">streamgroup</a>	arn:\${Partition}:gameliftstreams:\${Region}:\${Account}:streamgroup/\${StreamGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon GameLift Streams

Amazon GameLift Streams defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Global Accelerator

AWS Global Accelerator (service prefix: `globalaccelerator`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Global Accelerator](#)
- [Resource types defined by AWS Global Accelerator](#)
- [Condition keys for AWS Global Accelerator](#)

## Actions defined by AWS Global Accelerator

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddCustomRoutingEndpoints</a>	Grants permission to add a virtual private cloud (VPC) subnet endpoint to a custom routing accelerator endpoint group	Write	<a href="#">endpointgroup*</a>		
<a href="#">AddEndpoints</a>	Grants permission to add an endpoint to a standard accelerator endpoint group	Write	<a href="#">endpointgroup*</a>		globalaccelerator: UpdateEndpointGroup
<a href="#">AdvertiseByoipCidr</a>	Grants permission to advertises an IPv4 address range that is provisioned for use with your accelerator through bring your own IP addresses (BYOIP)	Write			
<a href="#">AllowCustomRoutingTraffic</a>	Grants permission to allows custom routing of user traffic to a private destination IP:PORT in a specific VPC subnet	Write	<a href="#">endpointgroup*</a>		
<a href="#">CreateAccelerator</a>	Grants permission to create a standard accelerator	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCrossAccountAttachment</a>	Grants permission to create a CrossAccountAttachment	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCustomRoutingAccelerator</a>	Grants permission to create a Custom Routing accelerator	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCustomRoutingEndpointGroup</a>	Grants permission to create an endpoint group for the specified listener for a custom routing accelerator	Write	<a href="#">listener*</a>		
<a href="#">CreateCustomRoutingListener</a>	Grants permission to create a listener to process inbound connections from clients to a custom routing accelerator	Write	<a href="#">accelerator*</a>		
<a href="#">CreateEndpointGroup</a>	Grants permission to add an endpoint group to a standard accelerator listener	Write	<a href="#">listener*</a>		
<a href="#">CreateListener</a>	Grants permission to add a listener to a standard accelerator	Write	<a href="#">accelerator*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccelerator</a>	Grants permission to delete a standard accelerator	Write	<a href="#">accelerator*</a>		
<a href="#">DeleteCrossAccountAttachment</a>	Grants permission to delete a CrossAccountAttachment	Write	<a href="#">attachment*</a>		
<a href="#">DeleteCustomRoutingAccelerator</a>	Grants permission to delete a custom routing accelerator	Write	<a href="#">accelerator*</a>		
<a href="#">DeleteCustomRoutingEndpointGroup</a>	Grants permission to delete an endpoint group from a listener for a custom routing accelerator	Write	<a href="#">endpointgroup*</a>		
<a href="#">DeleteCustomRoutingListener</a>	Grants permission to delete a listener for a custom routing accelerator	Write	<a href="#">listener*</a>		
<a href="#">DeleteEndpointGroup</a>	Grants permission to delete an endpoint group associated with a standard accelerator listener	Write	<a href="#">endpointgroup*</a>		
<a href="#">DeleteListener</a>	Grants permission to delete a listener from a standard accelerator	Write	<a href="#">listener*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DenyCustomRoutingTraffic</a>	Grants permission to disallows custom routing of user traffic to a private destination IP:PORT in a specific VPC subnet	Write	<a href="#">endpointgroup*</a>		
<a href="#">DevisionByoipCidr</a>	Grants permission to releases the specified address range that you provisioned for use with your accelerator through bring your own IP addresses (BYOIP)	Write			
<a href="#">DescribeAccelerator</a>	Grants permissions to describe a standard accelerator	Read	<a href="#">accelerator*</a>		
<a href="#">DescribeAcceleratorAttributes</a>	Grants permission to describe a standard accelerator attributes	Read	<a href="#">accelerator*</a>		
<a href="#">DescribeCrossAccountAttachment</a>	Grants permissions to describe a CrossAccountAttachment	Read	<a href="#">attachment*</a>		
<a href="#">DescribeCustomRoutingAccelerator</a>	Grants permission to describe a custom routing accelerator	Read	<a href="#">accelerator*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCustomRoutingAcceleratorAttributes</a>	Grants permission to describe the attributes of a custom routing accelerator	Read	<a href="#">accelerator*</a>		
<a href="#">DescribeCustomRoutingEndpointGroup</a>	Grants permission to describe an endpoint group for a custom routing accelerator	Read	<a href="#">endpointgroup*</a>		
<a href="#">DescribeCustomRoutingListener</a>	Grants permission to describe a listener for a custom routing accelerator	Read	<a href="#">listener*</a>		
<a href="#">DescribeEndpointGroup</a>	Grants permission to describe a standard accelerator endpoint group	Read	<a href="#">endpointgroup*</a>		
<a href="#">DescribeListener</a>	Grants permission to describe a standard accelerator listener	Read	<a href="#">listener*</a>		
<a href="#">ListAccelerators</a>	Grants permission to list all standard accelerators	List			
<a href="#">ListByoipCidrs</a>	Grants permission to list the BYOIP cidrs	List			
<a href="#">ListCrossAccountAttachments</a>	Grants permission to list all CrossAccountAttachments	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCrossAccountResourceAccounts</a>	Grants permission to list accounts with CrossAccountAttachments listing caller as a principal	List			
<a href="#">ListCrossAccountResources</a>	Grants permission to list all CrossAccountAttachment resources usable by caller	List			
<a href="#">ListCustomRoutingAccelerators</a>	Grants permission to list the custom routing accelerators for an AWS account	List			
<a href="#">ListCustomRoutingEndpointGroups</a>	Grants permission to list the endpoint groups that are associated with a listener for a custom routing accelerator	List	<a href="#">listener*</a>		
<a href="#">ListCustomRoutingListeners</a>	Grants permission to list the listeners for a custom routing accelerator	List	<a href="#">accelerator*</a>		
<a href="#">ListCustomRoutingPortMappings</a>	Grants permission to list the port mappings for a custom routing accelerator	List	<a href="#">accelerator*</a>		
<a href="#">ListCustomRoutingPortMappingsByDestination</a>	Grants permission to list the port mappings for a specific endpoint IP address (a destination address) in a subnet	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEndpointGroups</a>	Grants permission to list all endpoint groups associated with a standard accelerator listener	List	<a href="#">listener*</a>		
<a href="#">ListListeners</a>	Grants permission to list all listeners associated with a standard accelerator	List	<a href="#">accelerator*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a globalaccelerator resource	Read	<a href="#">accelerator</a> <a href="#">attachment</a>		
<a href="#">ProvisionByoipCidr</a>	Grants permission to provisions an address range for use with your accelerator or through bring your own IP addresses (BYOIP)	Write			
<a href="#">RemoveCustomRoutingEndpoints</a>	Grants permission to remove virtual private cloud (VPC) subnet endpoints from a custom routing accelerator endpoint group	Write	<a href="#">endpointgroup*</a>		
<a href="#">RemoveEndpoints</a>	Grants permission to remove an endpoint from a standard accelerator endpoint group	Write	<a href="#">endpointgroup*</a>		globalaccelerator: UpdateEndpointGroup

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add tags to a globalaccelerator resource	Tagging	<a href="#">accelerator</a>		
			<a href="#">attachment</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a globalaccelerator resource	Tagging	<a href="#">accelerator</a>		
			<a href="#">attachment</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccelerator</a>	Grants permission to update a standard accelerator	Write	<a href="#">accelerator*</a>		
<a href="#">UpdateAcceleratorAttributes</a>	Grants permission to update a standard accelerator attributes	Write	<a href="#">accelerator*</a>		
<a href="#">UpdateCrossAccountAttachment</a>	Grants permission to update a CrossAccountAttachment	Write	<a href="#">attachment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCustomRoutingAccelerator</a>	Grants permission to update a custom routing accelerator	Write	<a href="#">accelerator*</a>		
<a href="#">UpdateCustomRoutingAcceleratorAttributes</a>	Grants permission to update the attributes for a custom routing accelerator	Write	<a href="#">accelerator*</a>		
<a href="#">UpdateCustomRoutingListener</a>	Grants permission to update a listener for a custom routing accelerator	Write	<a href="#">listener*</a>		
<a href="#">UpdateEndpointGroup</a>	Grants permission to update an endpoint group on a standard accelerator listener	Write	<a href="#">endpointgroup*</a>		
<a href="#">UpdateListener</a>	Grants permission to update a listener on a standard accelerator	Write	<a href="#">listener*</a>		
<a href="#">WithdrawBgpCidr</a>	Grants permission to stop advertising a BYOIP IPv4 address	Write			

## Resource types defined by AWS Global Accelerator

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">accelerator</a>	arn:\${Partition}:globalaccelerator:: \${Account}:accelerator/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">listener</a>	arn:\${Partition}:globalaccelerator:: \${Account}:accelerator/\${ResourceId} /listener/\${ListenerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">endpointgroup</a>	arn:\${Partition}:globalaccelerator:: \${Account}:accelerator/\${ResourceId} /listener/\${ListenerId}/endpoint-group/ /\${EndpointGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">attachment</a>	arn:\${Partition}:globalaccelerator:: \${Account}:attachment/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Global Accelerator

AWS Global Accelerator defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String



Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Glue

AWS Glue (service prefix: `glue`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Glue](#)
- [Resource types defined by AWS Glue](#)
- [Condition keys for AWS Glue](#)

## Actions defined by AWS Glue

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Authorize InboundIntegration</a> [permission only]	Grants permission to Glue to continuously validate that the target Arn can receive data replicated from the source ARN	Write	<a href="#">integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCreatePartition</a>	Grants permission to create one or more partitions	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">BatchDeleteConnection</a>	Grants permission to delete one or more connections	Write	<a href="#">connection*</a>		
			<a href="#">rootcatalog*</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">BatchDeletePartition</a>	Grants permission to delete one or more partitions	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">BatchDeleteTable</a>	Grants permission to delete one or more tables	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>	<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">BatchDeleteTableVersion</a>	Grants permission to delete one or more versions of a table	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>	<a href="#">glue:Lake Formation Permissions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetBlueprints</a>	Grants permission to retrieve one or more blueprints	Read	<a href="#">blueprint*</a>		
<a href="#">BatchGetCrawlers</a>	Grants permission to retrieve one or more crawlers	Read	<a href="#">crawler*</a>		
<a href="#">BatchGetCustomEntityTypeTypes</a>	Grants permission to retrieve one or more Custom Entity Types	Read			
<a href="#">BatchGetDevelopmentEndpoints</a>	Grants permission to retrieve one or more development endpoints	Read	<a href="#">devendpoint*</a>		
<a href="#">BatchGetJobs</a>	Grants permission to retrieve one or more jobs	Read	<a href="#">job*</a>		
<a href="#">BatchGetPartitions</a>	Grants permission to retrieve one or more partitions	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetStageFiles</a>	Grants permission to batch get stage files for SparkUI	Permissions management			
<a href="#">BatchGetTableOptimizer</a>	Grants permission to return the configuration for the specified table optimizers	Read	<a href="#">database*</a>		glue:GetTable
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">BatchGetTriggers</a>	Grants permission to retrieve one or more triggers	Read	<a href="#">trigger*</a>		
<a href="#">BatchGetWorkflows</a>	Grants permission to retrieve one or more workflows	Read	<a href="#">workflow*</a>		
<a href="#">BatchStopJobRun</a>	Grants permission to stop one or more job runs for a job	Write	<a href="#">job*</a>		
<a href="#">BatchUpdatePartition</a>	Grants permission to update one or more partitions	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">CancelDataQualityRuleRecommendationRun</a>	Grants permission to stop a running Data Quality rule recommendation run	Write	<a href="#">dataQualityRuleset*</a>		
<a href="#">CancelDataQualityRulesetEvaluationRun</a>	Grants permission to stop a running Data Quality ruleset evaluation run	Write	<a href="#">dataQualityRuleset*</a>		
<a href="#">CancelMLTaskRun</a>	Grants permission to stop a running ML Task Run	Write	<a href="#">mlTransform*</a>		
<a href="#">CancelStatement</a>	Grants permission to cancel a statement in an interactive session	Write	<a href="#">session*</a>		
<a href="#">CheckSchemaVersionValidity</a>	Grants permission to retrieve a check the validity of schema version	Read			
<a href="#">CreateBlueprint</a>	Grants permission to create a blueprint	Write	<a href="#">blueprint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCatalog</a>	Grants permission to create a catalog	Write	<a href="#">catalog*</a> <a href="#">rootcatalog*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">glue:LakeFormationPermissions</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">CreateClassifier</a>	Grants permission to create a classifier	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateColumnStatisticsTaskSettings</a>	Grants permission to create settings for a column statistics task	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">CreateConnection</a>	Grants permission to create a connection	Write	<a href="#">rootcatalog*</a>		
			<a href="#">connectionType</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
			<a href="#">aws:TagKeys</a>		
			<a href="#">glue:LakeFormationPermissions</a>		
<a href="#">CreateCrawler</a>	Grants permission to create a crawler	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomEntityType</a>	Grants permission to create a Custom Entity Type	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataQualityRuleset</a>	Grants permission to create a Data Quality ruleset	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDatabase</a>	Grants permission to create a database	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">glue:LakeFormationPermissions</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">CreateDevelopmentEndpoint</a>	Grants permission to create a development endpoint	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGlueIdentityCenterConfiguration</a>	Grants permission to connect Glue with Identity Center	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInboundIntegration</a> [permission only]	Grants permission to the source principal to create an inbound integration for data to be replicated from the source into the target	Write			
<a href="#">CreateIntegration</a>	Grants permission to create an integration	Write	<a href="#">catalog*</a>		kms:CreateGrant  kms:DescribeKey
			<a href="#">connection*</a>		
			<a href="#">database*</a>		
			<a href="#">integration*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateIntegrationResourceProperty</a>	Grants permission to create integration resource property	Write	<a href="#">catalog*</a>  <a href="#">connection*</a>  <a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integrationResourceProperty*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIntegrationTableProperties</a>	Grants permission to create integration table properties	Write	<a href="#">catalog*</a> <a href="#">connection*</a> <a href="#">database*</a>		
<a href="#">CreateJob</a>	Grants permission to create a job	Write	<a href="#">job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">glue:Vpcls</a> <a href="#">glue:SubnetIds</a> <a href="#">glue:SecurityGroupIds</a>	
<a href="#">CreateMLTransform</a>	Grants permission to create an ML Transform	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePartition</a>	Grants permission to create a partition	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">CreatePartitionIndex</a>	Grants permission to create a specified partition index in an existing table	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">CreateRegistry</a>	Grants permission to create a new schema registry	Write	<a href="#">registry*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateSchema</a>	Grants permission to create a new schema container	Write	<a href="#">registry*</a>		
			<a href="#">schema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateScript</a>	Grants permission to create a script	Write			
<a href="#">CreateSecurityConfiguration</a>	Grants permission to create a security configuration	Write			
<a href="#">CreateSession</a>	Grants permission to create an interactive session	Write	<a href="#">session*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">glue:Vpcls</a> <a href="#">glue:SubnetIds</a> <a href="#">glue:SecurityGroupIds</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTable</a>	Grants permission to create a table	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
				<a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">CreateTableOptimizer</a>	Grants permission to create a new table optimizer for a specific function. Compaction is the only currently supported optimizer type	Write	<a href="#">database*</a>		<a href="#">glue:GetTable</a>
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">CreateTrigger</a>	Grants permission to create a trigger	Write	<a href="#">trigger*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUsageProfile</a>	Grants permission to create a usage profile	Write	<a href="#">usageProfile*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUserDefinedFunction</a>	Grants permission to create a function definition	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">CreateWorkflow</a>	Grants permission to create a workflow	Write	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteBlueprint</a>	Grants permission to delete a blueprint	Write	<a href="#">blueprint*</a>		
<a href="#">DeleteCatalog</a>	Grants permission to delete a catalog	Write	<a href="#">rootcatalog*</a>		
			<a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">DeleteClassifier</a>	Grants permission to delete a classifier	Write			
<a href="#">DeleteColumnStatisticsForPartition</a>	Grants permission to delete the partition column statistics of a column	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">DeleteColumnStatisticsForTable</a>	Grants permission to delete the table statistics of columns	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">DeleteColumnStatisticsTaskSettings</a>	Grants permission to delete settings for a column statistics task	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">DeleteConnection</a>	Grants permission to delete a connection	Write	<a href="#">connection*</a>		
			<a href="#">rootcatalog*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">DeleteConnectionType</a>	Grants permission to delete connection type	Write	<a href="#">connectionType*</a>		
<a href="#">DeleteCrawler</a>	Grants permission to delete a crawler	Write	<a href="#">crawler*</a>		
<a href="#">DeleteCustomEntityType</a>	Grants permission to delete a Custom Entity Type	Write			
<a href="#">DeleteDataQualityRuleset</a>	Grants permission to delete a Data Quality ruleset	Write	<a href="#">dataQualityRuleset*</a>		
<a href="#">DeleteDatabase</a>	Grants permission to delete a database	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">userdefinedfunction*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a> <a href="#">glue:FederatedAuth orization Source</a>	
<a href="#">DeleteDev Endpoint</a>	Grants permission to delete a development endpoint	Write	<a href="#">devendpoi nt*</a>		
<a href="#">DeleteGlueIdentity CenterConfiguration</a>	Grants permission to disconnect Glue with Identity Center	Write			
<a href="#">DeleteIntegration</a>	Grants permission to delete an integration	Write	<a href="#">integrati on*</a>		
				<a href="#">aws:ResourceTag/ \${ TagKey}</a>	
<a href="#">DeleteIntegrationResourceProperty</a>	Grants permission to delete the integration resource property	Write	<a href="#">catalog*</a> <a href="#">connectio n*</a> <a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integrationResourceProperty*</a>		
<a href="#">DeleteIntegrationTableProperties</a>	Grants permission to delete integration table properties	Write	<a href="#">catalog*</a>		
			<a href="#">connection*</a>		
			<a href="#">database*</a>		
<a href="#">DeleteJob</a>	Grants permission to delete a job	Write	<a href="#">job*</a>		
<a href="#">DeleteMLTransform</a>	Grants permission to delete an ML Transform	Write	<a href="#">mlTransform*</a>		
<a href="#">DeletePartition</a>	Grants permission to delete a partition	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">DeletePartitionIndex</a>	Grants permission to delete a specified partition index from an existing table	Write	<a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">DeleteRegistry</a>	Grants permission to delete a schema registry	Write	<a href="#">registry*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy	Permissions management	<a href="#">rootcatalog*</a>		
<a href="#">DeleteSchema</a>	Grants permission to delete a schema container	Write	<a href="#">registry*</a>		
			<a href="#">schema*</a>		
<a href="#">DeleteSchemaVersions</a>	Grants permission to delete a range of schema versions	Write	<a href="#">registry*</a>		
			<a href="#">schema*</a>		
<a href="#">DeleteSecurityConfiguration</a>	Grants permission to delete a security configuration	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSession</a>	Grants permission to delete an interactive session after stopping the session if not already stopped	Write	<a href="#">session*</a>		
<a href="#">DeleteTable</a>	Grants permission to delete a table	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
				<a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">DeleteTableOptimizer</a>	Grants permission to delete an optimizer and all associated metadata for a table. The optimization will no longer be performed on the table	Write	<a href="#">database*</a>		<a href="#">glue:GetTable</a>
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">DeleteTableVersion</a>	Grants permission to delete a version of a table	Write	<a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">DeleteTrigger</a>	Grants permission to delete a trigger	Write	<a href="#">trigger*</a>		
<a href="#">DeleteUsageProfile</a>	Grants permission to delete a usage profile	Write	<a href="#">usageProfile*</a>		
<a href="#">DeleteUserDefinedFunction</a>	Grants permission to delete a function definition	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">userdefinedfunction*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWorkflow</a>	Grants permission to delete a workflow	Write	<a href="#">workflow*</a>		
<a href="#">DeregisterDataPreview</a>	Grants permission to terminate Glue Studio Notebook session	Permissions management			
<a href="#">DescribeConnectionType</a>	Grants permission to describe connection type in glue	Permissions management	<a href="#">connectionType</a>		
<a href="#">DescribeEntity</a>	Grants permission to describe entity in glue studio	Permissions management	<a href="#">connection*</a> <a href="#">rootcatalog*</a> <a href="#">connectionType</a>		
<a href="#">DescribeInboundIntegrations</a>	Grants permission to list the inbound integrations	List			
<a href="#">DescribeIntegrations</a>	Grants permission to describe zero-ETL integrations	List	<a href="#">integration*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">FederateAuthorization</a>	Grants permission to read and write redshift federated resources	Write	<a href="#">rootcatalog*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:EnabledForRedshiftAutoDiscovery</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">GetBlueprint</a>	Grants permission to retrieve a blueprint	Read	<a href="#">blueprint*</a>		
<a href="#">GetBlueprintRun</a>	Grants permission to retrieve a blueprint run	Read	<a href="#">blueprint*</a>		
<a href="#">GetBlueprintRuns</a>	Grants permission to retrieve all runs of a blueprint	Read	<a href="#">blueprint*</a>		
<a href="#">GetCatalog</a>	Grants permission to retrieve a catalog	Read	<a href="#">rootcatalog*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:EnabledForRedshiftAutoDiscovery</a>  <a href="#">glue:LakeFormationPermissions</a>  <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">GetCatalogImportStatus</a>	Grants permission to retrieve the catalog import status	Read	<a href="#">rootcatalog*</a>	<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">GetCatalogs</a>	Grants permission to retrieve all catalogs	Read	<a href="#">rootcatalog*</a>  <a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:EnabledForRedshiftAutoDiscovery</a>  <a href="#">glue:LakeFormationPermissions</a>  <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">GetClassifier</a>	Grants permission to retrieve a classifier	Read			
<a href="#">GetClassifiers</a>	Grants permission to list all classifiers	Read			
<a href="#">GetColumnStatisticsForPartitions</a>	Grants permission to retrieve partition statistics of columns	Read	<a href="#">database*</a>  <a href="#">rootcatalog*</a>  <a href="#">table*</a>  <a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetColumnStatisticsForTable</a>	Grants permission to retrieve table statistics of columns	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">GetColumnStatisticsTaskRun</a>	Grants permission to retrieve Column Statistics run information for the table based on run-id	Read			
<a href="#">GetColumnStatisticsTaskRuns</a>	Grants permission to retrieve Column Statistics run information for the table based on run-ids	Read			
<a href="#">GetColumnStatisticsTaskSettings</a>	Grants permission to retrieve settings for a column statistics task	Read			
<a href="#">GetCompletion</a>	Grants permission to get generated response for a completion request in Glue from AWS Q	Read	<a href="#">completion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConnection</a>	Grants permission to retrieve a connection	Read	<a href="#">connection*</a>		
			<a href="#">rootcatalog*</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">GetConnections</a>	Grants permission to retrieve a list of connections	Read	<a href="#">connection*</a>		
			<a href="#">rootcatalog*</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">GetCrawler</a>	Grants permission to retrieve a crawler	Read	<a href="#">crawler*</a>		
<a href="#">GetCrawlerMetrics</a>	Grants permission to retrieve metrics about crawlers	Read			
<a href="#">GetCrawlers</a>	Grants permission to retrieve all crawlers	Read			
<a href="#">GetCustomEntityType</a>	Grants permission to read a Custom Entity Type	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDashboardUrl</a>	Grants permission to generate presigned url for accessing spark live UI	Read	<a href="#">session*</a>		
<a href="#">GetDataCatalogEncryptionSettings</a>	Grants permission to retrieve catalog encryption settings	Read	<a href="#">rootcatalog*</a>		
<a href="#">GetDataPreviewStatement</a>	Grants permission to get Data Preview Statement	Permissions management			
<a href="#">GetDataQualityModel</a>	Grants permission to retrieve the training status of the prediction model for a statistic	Read	<a href="#">dataQualityRuleset*</a>		
			<a href="#">job*</a>		
<a href="#">GetDataQualityModelResult</a>	Grants permission to retrieve the predictions for a statistic from the latest model	Read	<a href="#">dataQualityRuleset*</a>		
			<a href="#">job*</a>		
<a href="#">GetDataQualityResult</a>	Grants permission to retrieve a Data Quality result	Read	<a href="#">dataQualityRuleset*</a>		
<a href="#">GetDataQualityRuleRecommendationRun</a>	Grants permission to retrieve a Data Quality rule recommendation run	Read	<a href="#">dataQualityRuleset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDataQualityRuleset</a>	Grants permission to retrieve a Data Quality ruleset	Read	<a href="#">dataQualityRuleset*</a>		
<a href="#">GetDataQualityRuleSetEvaluationRun</a>	Grants permission to retrieve a Data Quality rule recommendation run	Read	<a href="#">dataQualityRuleset*</a>		
<a href="#">GetDatabase</a>	Grants permission to retrieve a database	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
				<a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">GetDatabases</a>	Grants permission to retrieve all databases	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a> <a href="#">glue:FederatedAuth Source</a>	
<a href="#">GetDataflowGraph</a>	Grants permission to transform a script into a directed acyclic graph (DAG)	Read			
<a href="#">GetDevEndpoint</a>	Grants permission to retrieve a development endpoint	Read	<a href="#">devendpoint*</a>		
<a href="#">GetDevEndpoints</a>	Grants permission to retrieve all development endpoints	Read			
<a href="#">GetEntityRecords</a>	Grants permission to preview entity records in glue	Read	<a href="#">catalog*</a>		
			<a href="#">connection</a>		
			<a href="#">connectionType</a>		
<a href="#">GetEnvironment</a>	Grants permission to get environment details for SparkUI	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExecutors</a>	Grants permission to get executors for SparkUI	Permissions management			
<a href="#">GetExecutorsThreads</a>	Grants permission to get executor threads for SparkUI	Permissions management			
<a href="#">GetGeneratedCode</a>	Transforms a directed acyclic graph (DAG) into code	Read			
<a href="#">GetGlueEntityCenterConfiguration</a>	Grants permission to retrieve the managed Idc application	Read			
<a href="#">GetIntegrationResourceProperty</a>	Grants permission to retrieve the integration resource property	Read	<a href="#">catalog*</a>		
			<a href="#">connection*</a>		
			<a href="#">database*</a>		
			<a href="#">integrationResourceProperty*</a>		
<a href="#">GetIntegrationTableProperties</a>	Grants permission to retrieve the integration table properties	Read	<a href="#">catalog*</a>		
			<a href="#">connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">database*</a>		
<a href="#">GetJob</a>	Grants permission to retrieve a job	Read	<a href="#">job*</a>		
<a href="#">GetJobBookmark</a>	Grants permission to retrieve a job bookmark	Read			
<a href="#">GetJobRun</a>	Grants permission to retrieve a job run	Read	<a href="#">job*</a>		
<a href="#">GetJobRuns</a>	Grants permission to retrieve all job runs of a job	Read	<a href="#">job*</a>		
<a href="#">GetJobUpgradeAnalysis</a>	Grants permission to retrieve an upgrade analysis for a job	Read	<a href="#">job*</a>		
<a href="#">GetJobs</a>	Grants permission to retrieve all current jobs	Read			
<a href="#">GetLogParsingStatus</a>	Grants permission to get log parsing status for SparkUI	Permissions management			
<a href="#">GetMLTaskRun</a>	Grants permission to retrieve an ML Task Run	Read	<a href="#">mlTransform*</a>		
<a href="#">GetMLTaskRuns</a>	Grants permission to retrieve all ML Task Runs	List	<a href="#">mlTransform*</a>		
<a href="#">GetMLTransform</a>	Grants permission to retrieve an ML Transform	Read	<a href="#">mlTransform*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMLTransforms</a>	Grants permission to retrieve all ML Transforms	List	<a href="#">mlTransform*</a>		
<a href="#">GetMapping</a>	Grants permission to create a mapping	Read			
<a href="#">GetNotebookInstanceStatus</a>	Grants permission to retrieve Glue Studio Notebooks session status	Permissions management			
<a href="#">GetPartition</a>	Grants permission to retrieve a partition	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
			<a href="#">glue:LakeFormationPermissions</a>		
<a href="#">GetPartitionIndexes</a>	Grants permission to retrieve partition indexes for a table	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">GetPartitions</a>	Grants permission to retrieve the partitions of a table	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">GetPlan</a>	Grants permission to retrieve a mapping for a script	Read			
<a href="#">GetQueries</a>	Grants permission to get queries for SparkUI	Permissions management			
<a href="#">GetQuery</a>	Grants permission to get a specific query for SparkUI	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRecipeAction</a>	Grants permission to get the result of a Data Preparation Recipe statement	Permissions management			
<a href="#">GetRegistry</a>	Grants permission to retrieve a schema registry	Read	<a href="#">registry*</a>		
<a href="#">GetResourcePolicies</a>	Grants permission to retrieve resource policies	Read	<a href="#">rootcatalog*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve a resource policy	Read	<a href="#">rootcatalog*</a>		
<a href="#">GetSchema</a>	Grants permission to retrieve a schema container	Read	<a href="#">registry*</a> <a href="#">schema*</a>		
<a href="#">GetSchemaByDefinition</a>	Grants permission to retrieve a schema version based on schema definition	Read	<a href="#">registry*</a> <a href="#">schema*</a>		
<a href="#">GetSchemaVersion</a>	Grants permission to retrieve a schema version	Read	<a href="#">registry</a> <a href="#">schema</a>		
<a href="#">GetSchemaVersionsDiff</a>	Grants permission to compare two schema versions in schema registry	Read	<a href="#">registry*</a> <a href="#">schema*</a>		
<a href="#">GetSecurityConfiguration</a>	Grants permission to retrieve a security configuration	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSecurityConfigurations</a>	Grants permission to retrieve one or more security configurations	Read			
<a href="#">GetSession</a>	Grants permission to retrieve an interactive session	Read	<a href="#">session*</a>		
<a href="#">GetStage</a>	Grants permission to get a stage for SparkUI	Permissions management			
<a href="#">GetStageAttempt</a>	Grants permission to get a stage attempt for SparkUI	Permissions management			
<a href="#">GetStageAttemptTaskList</a>	Grants permission to get the task list for a stage attempt for SparkUI	Permissions management			
<a href="#">GetStageAttemptTaskSummary</a>	Grants permission to get the task summary for a stage attempt for SparkUI	Permissions management			
<a href="#">GetStageFiles</a>	Grants permission to get stage files for SparkUI	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetStages</a>	Grants permission to get stages for SparkUI	Permissions management			
<a href="#">GetStatement</a>	Grants permission to retrieve result and information about a statement in an interactive session	Read	<a href="#">session*</a>		
<a href="#">GetStorage</a>	Grants permission to get storage details for SparkUI	Permissions management			
<a href="#">GetStorageUnit</a>	Grants permission to get storage unit details for SparkUI	Permissions management			
<a href="#">GetTable</a>	Grants permission to retrieve a table	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a> <a href="#">glue:FederatedAuthorization Source</a>	
<a href="#">GetTableOptimizer</a>	Grants permission to return the configuration of all optimizers associated with a specified table	Read	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a>		glue:GetTable
<a href="#">GetTableVersion</a>	Grants permission to retrieve a version of a table	Read	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>	<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">GetTableVersions</a>	Grants permission to retrieve a list of versions of a table	Read	<a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">GetTables</a>	Grants permission to retrieve the tables in a database	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
				<a href="#">glue:FederatedAuthorization Source</a>	
<a href="#">GetTags</a>	Grants permission to retrieve all tags associated with a resource	Read	<a href="#">blueprint</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">connection</a>		
			<a href="#">connectionType</a>		
			<a href="#">crawler</a>		
			<a href="#">customEntityType</a>		
			<a href="#">database</a>		
			<a href="#">devendpoint</a>		
			<a href="#">job</a>		
			<a href="#">trigger</a>		
			<a href="#">usageProfile</a>		
			<a href="#">workflow</a>		
<a href="#">GetTrigger</a>	Grants permission to retrieve a trigger	Read	<a href="#">trigger*</a>		
<a href="#">GetTriggers</a>	Grants permission to retrieve the triggers associated with a job	Read			
<a href="#">GetUsageProfile</a>	Grants permission to retrieve a usage profile	Read	<a href="#">usageProfile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUserDefinedFunction</a>	Grants permission to retrieve a function definition	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">userdefinedfunction*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">GetUserDefinedFunctions</a>	Grants permission to retrieve multiple function definitions	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">userdefinedfunction*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a> <a href="#">glue:FederatedAuthorization Source</a>	
<a href="#">GetWorkflow</a>	Grants permission to retrieve a workflow	Read	<a href="#">workflow*</a>		
<a href="#">GetWorkflowRun</a>	Grants permission to retrieve a workflow run	Read	<a href="#">workflow*</a>		
<a href="#">GetWorkflowRunProperties</a>	Grants permission to retrieve workflow run properties	Read	<a href="#">workflow*</a>		
<a href="#">GetWorkflowRuns</a>	Grants permission to retrieve all runs of a workflow	Read	<a href="#">workflow*</a>		
<a href="#">GlueNotebookAuthorize</a>	Grants permission to access Glue Studio Notebooks	Permissions management			
<a href="#">GlueNotebookRefreshCredentials</a>	Grants permission to refresh Glue Studio Notebooks credentials	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportCatalogToGlue</a>	Grants permission to import an Athena data catalog into AWS Glue	Write	<a href="#">rootcatalog*</a>	<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">ListBlueprints</a>	Grants permission to retrieve all blueprints	List			
<a href="#">ListColumnStatisticsTaskRuns</a>	Grants permission to list all Column Statistics run-ids that have been executed for the account	Read			
<a href="#">ListConnectionTypes</a>	Grants permission to list connection types in glue	Permissions management			
<a href="#">ListCrawlers</a>	Grants permission to retrieve all crawlers	List			
<a href="#">ListCrawls</a>	Grants permission to retrieve crawl run history for a crawler	List	<a href="#">crawler*</a>		
<a href="#">ListCustomEntityTypes</a>	Grants permission to retrieve all Custom Entity Types	List			
<a href="#">ListDataQualityResults</a>	Grants permission to retrieve all Data Quality results	List	<a href="#">dataQualityRuleset*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDataQualityRuleRecommendationRuns</a>	Grants permission to retrieve all Data Quality rule recommendation runs	List	<a href="#">dataQualityRuleSet*</a>		
<a href="#">ListDataQualityRuleSetEvaluationRuns</a>	Grants permission to retrieve all Data Quality rule recommendation runs	List	<a href="#">dataQualityRuleSet*</a>		
<a href="#">ListDataQualityRulesets</a>	Grants permission to retrieve a list of Data Quality rulesets	List	<a href="#">dataQualityRuleSet*</a>		
<a href="#">ListDevelopmentEndpoints</a>	Grants permission to retrieve all development endpoints	List			
<a href="#">ListEntities</a>	Grants permission to list entities in glue studio	Permissions management	<a href="#">connection*</a> <a href="#">rootcatalog*</a> <a href="#">connectionType</a>		
<a href="#">ListIntegrationResourceProperties</a>	Grants permission to list zero-ETL integration resource properties	List	<a href="#">catalog*</a> <a href="#">connection*</a> <a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integrationResourceProperty</a> * -		
<a href="#">ListJobUpgradeAnalyses</a>	Grants permission to list upgrade analyses for a job	List	<a href="#">job</a> *		
<a href="#">ListJobs</a>	Grants permission to retrieve all current jobs	List			
<a href="#">ListMLTransforms</a>	Grants permission to retrieve all ML Transforms	List	<a href="#">mlTransform</a> *		
<a href="#">ListRegistries</a>	Grants permission to retrieve a list of schema registries	List			
<a href="#">ListSchemaVersions</a>	Grants permission to retrieve a list of schema versions	List	<a href="#">registry</a> * <a href="#">schema</a> *		
<a href="#">ListSchemas</a>	Grants permission to retrieve a list of schema containers	List	<a href="#">registry</a>		
<a href="#">ListSessions</a>	Grants permission to retrieve a list of interactive session	List			
<a href="#">ListStatements</a>	Grants permission to retrieve a list of statements in an interactive session	List	<a href="#">session</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTableOptimizerRuns</a>	Grants permission to list the history of previous optimizer runs for a specific table	List	<a href="#">database*</a>		glue:GetTable
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">ListTriggers</a>	Grants permission to retrieve all triggers	List			
<a href="#">ListUsageProfiles</a>	Grants permission to retrieve a list of usage profiles	List			
<a href="#">ListWorkflows</a>	Grants permission to retrieve all workflows	List			
<a href="#">ModifyIntegration</a>	Grants permission to modify a zero-ETL integration	Write	<a href="#">integration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">NotifyEvent</a>	Grants permission to notify an event to the event-driven workflow	Write	<a href="#">workflow*</a>		
<a href="#">PassConnection</a> [permission only]	Grants permission to pass glue connection name in input for APIs that require them	Write	<a href="#">connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PublishDataQuality</a> [permission only]	Grants permission to publish Data Quality results	Write	<a href="#">dataQualityRuleset*</a>		
<a href="#">PutDataCatalogEncryptionSettings</a>	Grants permission to update catalog encryption settings	Write	<a href="#">rootcatalog*</a>		
<a href="#">PutDataQualityProfileAnnotation</a>	Grants permission to annotate all datapoints for a profile	Write	<a href="#">dataQualityRuleset*</a>		
			<a href="#">job*</a>		
<a href="#">PutDataQualityStatisticalAnnotation</a>	Grants permission to annotate datapoints over time for a specific data quality statistic	Write	<a href="#">dataQualityRuleset*</a>		
			<a href="#">job*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to update a resource policy	Permissions management	<a href="#">rootcatalog*</a>		
<a href="#">PutSchemaVersionMetadata</a>	Grants permission to add metadata to schema version	Write	<a href="#">registry</a>		
			<a href="#">schema</a>		
<a href="#">PutWorkflowRunProperties</a>	Grants permission to update workflow run properties	Write	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">QuerySchemaVersionMetadata</a>	Grants permission to fetch metadata for a schema version	List	<a href="#">registry</a> <a href="#">schema</a>		
<a href="#">RefreshOAuth2Tokens</a>	Grants permission to refresh the oauth2 tokens for connection during job execution	Permissions management	<a href="#">connection*</a> <a href="#">rootcatalog*</a> <a href="#">connectionType</a>		
<a href="#">RegisterConnectionType</a>	Grants permission to register connection type	Write	<a href="#">connectionType*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RegisterSchemaVersion</a>	Grants permission to create a new schema version	Write	<a href="#">registry*</a> <a href="#">schema*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveSchemaVersionMetadata</a>	Grants permission to remove metadata from schema version	Write	<a href="#">registry</a> <a href="#">schema</a>		
<a href="#">RenameTable</a>	Grants permission to rename a table	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">RequestLogParsing</a>	Grants permission to request log parsing for SparkUI	Permissions management			
<a href="#">ResetJobBookmark</a>	Grants permission to reset a job bookmark	Write			
<a href="#">ResumeWorkflowRun</a>	Grants permission to resume a workflow run	Write	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RunDataPreviewStatement</a>	Grants permission to run Data Preview Statement	Permissions management			
<a href="#">RunStatement</a>	Grants permission to run a code or statement in an interactive session	Write	<a href="#">session*</a>		
<a href="#">SearchTables</a>	Grants permission to retrieve the tables in the catalog	Read	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">SendFeedback</a>	Grants permission to provide feedback about a glue completion experience in AWS Q	Write			
<a href="#">SendRecipeAction</a>	Grants permission to execute a Data Preparation Recipe statement in data preview	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartBlueprintRun</a>	Grants permission to start running a blueprint	Write	<a href="#">blueprint*</a>		
<a href="#">StartColumnStatisticsTaskRun</a>	Grants permission to start a run for generating Column Statistics for the table	Write	<a href="#">database*</a>		glue:GetSecurityConfiguration  glue:GetTable
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">StartColumnStatisticsTaskRunSchedule</a>	Grants permission to start a column statistics task run schedule	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">StartCompletion</a>	Grants permission to create a completion request in Glue for AWS Q experience	Write			
<a href="#">StartCrawler</a>	Grants permission to start a crawler	Write	<a href="#">crawler*</a>		
<a href="#">StartCrawlerSchedule</a>	Grants permission to change the schedule state of a crawler to SCHEDULED	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDataQualityRuleRecommendationRun</a>	Grants permission to start a Data Quality rule recommendation run	Write	<a href="#">dataQualityRuleSet*</a>		
<a href="#">StartDataQualityRuleSetEvaluationRun</a>	Grants permission to start a Data Quality rule recommendation run	Write	<a href="#">dataQualityRuleSet*</a>		
<a href="#">StartExportLabelsTaskRun</a>	Grants permission to start an Export Labels ML Task Run	Write	<a href="#">mlTransform*</a>		
<a href="#">StartImportLabelsTaskRun</a>	Grants permission to start an Import Labels ML Task Run	Write	<a href="#">mlTransform*</a>		
<a href="#">StartJobRun</a>	Grants permission to start running a job	Write	<a href="#">job*</a>		
<a href="#">StartJobUpgradeAnalysis</a>	Grants permission to start running upgrade analysis for a job	Write	<a href="#">job*</a>		
<a href="#">StartMLEvaluationTaskRun</a>	Grants permission to start an Evaluation ML Task Run	Write	<a href="#">mlTransform*</a>		
<a href="#">StartMLLabelingSetGenerationTaskRun</a>	Grants permission to start a Labeling Set Generation ML Task Run	Write	<a href="#">mlTransform*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartNotebook</a>	Grants permission to start Glue Studio Notebooks	Permissions management			
<a href="#">StartTrigger</a>	Grants permission to start a trigger	Write	<a href="#">trigger*</a>		
<a href="#">StartWorkflowRun</a>	Grants permission to start running a workflow	Write	<a href="#">workflow*</a>		
<a href="#">StopColumnStatisticsTaskRun</a>	Grants permission to stop execution for Column Statistics run	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">StopColumnStatisticsTaskRunSchedule</a>	Grants permission to stop a column statistics task run schedule	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">StopCrawler</a>	Grants permission to stop a running crawler	Write	<a href="#">crawler*</a>		
<a href="#">StopCrawlerSchedule</a>	Grants permission to set the schedule state of a crawler to NOT_SCHEDULED	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopJobUpgradeAnalysis</a>	Grants permission to stop an on-going upgrade analysis for a job	Write	<a href="#">job*</a>		
<a href="#">StopSession</a>	Grants permission to stop an interactive session	Write	<a href="#">session*</a>		
<a href="#">StopTrigger</a>	Grants permission to stop a trigger	Write	<a href="#">trigger*</a>		
<a href="#">StopWorkflowRun</a>	Grants permission to stop a workflow run	Write	<a href="#">workflow*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">blueprint</a>		
			<a href="#">catalog</a>		
			<a href="#">connection</a>		
			<a href="#">connectionType</a>		
			<a href="#">crawler</a>		
			<a href="#">customEntityType</a>		
			<a href="#">dataQualityRuleset</a>		
			<a href="#">database</a>		
			<a href="#">development</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">integration</a>		
			<a href="#">integrationResourceProperty</a>		
			<a href="#">job</a>		
			<a href="#">mlTransform</a>		
			<a href="#">registry</a>		
			<a href="#">schema</a>		
			<a href="#">session</a>		
			<a href="#">trigger</a>		
			<a href="#">usageProfile</a>		
			<a href="#">workflow</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">glue:LakeFormationPermissions</a>	
<a href="#">Terminate Notebook</a>	Grants permission to terminate Glue Studio Notebooks	Permissions management			
<a href="#">TestConnection</a>	Grants permission to test connection in Glue Studio	Permissions management	<a href="#">connection</a> <a href="#">connectionType</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags associated with a resource	Tagging	<a href="#">blueprint</a> <a href="#">catalog</a> <a href="#">connection</a> <a href="#">connectionType</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">crawler</a>		
			<a href="#">customEntityType</a>		
			<a href="#">dataQualityRuleset</a>		
			<a href="#">database</a>		
			<a href="#">devendpoint</a>		
			<a href="#">integration</a>		
			<a href="#">integrationResourceProperty</a>		
			<a href="#">job</a>		
			<a href="#">mlTransform</a>		
			<a href="#">registry</a>		
			<a href="#">schema</a>		
			<a href="#">session</a>		
			<a href="#">trigger</a>		
			<a href="#">usageProfile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workflow</a>		
<a href="#">UpdateBlueprint</a>	Grants permission to update a blueprint	Write	<a href="#">blueprint*</a>	<a href="#">aws:TagKeys</a> <a href="#">glue:LakeFormationPermissions</a>	
<a href="#">UpdateCatalog</a>	Grants permission to update a catalog	Write	<a href="#">rootcatalog*</a> <a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">UpdateClassifier</a>	Grants permission to update a classifier	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateColumnStatisticsForPartition</a>	Grants permission to update partition statistics of columns	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">UpdateColumnStatisticsForTable</a>	Grants permission to update table statistics of columns	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:Lake Formation Permissions</a>	
<a href="#">UpdateColumnStatisticsTaskSettings</a>	Grants permission to update settings for a column statistics task	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConnection</a>	Grants permission to update a connection	Write	<a href="#">connection*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">connectionType</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">UpdateCrawler</a>	Grants permission to update a crawler	Write	<a href="#">crawler*</a>		
<a href="#">UpdateCrawlerSchedule</a>	Grants permission to update the schedule of a crawler	Write			
<a href="#">UpdateDataQualityRuleset</a>	Grants permission to update a Data Quality ruleset	Write	<a href="#">dataQualityRuleset*</a>		
<a href="#">UpdateDatabase</a>	Grants permission to update a database	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">catalog</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">glue:Lake Formation Permissions</a> <a href="#">glue:FederatedAuthorization Source</a>	
<a href="#">UpdateDev Endpoint</a>	Grants permission to update a development endpoint	Write	<a href="#">devendpoint*</a>		
<a href="#">UpdateGlueIdentityCenterConfiguration</a>	Grants permission to update the managed Idc application	Write			
<a href="#">UpdateIntegrationResourceProperty</a>	Grants permission to update the integration resource property	Write	<a href="#">catalog*</a>		
			<a href="#">connection*</a>		
			<a href="#">database*</a>		
			<a href="#">integrationResourceProperty*</a>		
<a href="#">UpdateIntegrationTableProperties</a>	Grants permission to update the integration table properties	Write	<a href="#">catalog*</a>		
			<a href="#">connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">database*</a>		
<a href="#">UpdateJob</a>	Grants permission to update a job	Write	<a href="#">job*</a>	<a href="#">glue:Vpcls</a> <a href="#">glue:SubnetIds</a> <a href="#">glue:SecurityGroupIds</a>	
<a href="#">UpdateJobFromSourceControl</a>	Grants permission to update a job from source control provider	Write	<a href="#">job*</a>		
<a href="#">UpdateMLTransform</a>	Grants permission to update an ML Transform	Write	<a href="#">mlTransform*</a>		
<a href="#">UpdatePartition</a>	Grants permission to update a partition	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRegistry</a>	Grants permission to update a schema registry	Write	<a href="#">registry*</a>		
<a href="#">UpdateSchema</a>	Grants permission to update a schema container	Write	<a href="#">registry*</a> <a href="#">schema*</a>		
<a href="#">UpdateSourceControlFromJob</a>	Grants permission to update source control provider from a job	Write	<a href="#">job*</a>		
<a href="#">UpdateTable</a>	Grants permission to update a table	Write	<a href="#">database*</a> <a href="#">rootcatalog*</a> <a href="#">table*</a> <a href="#">catalog</a>	<a href="#">glue:LakeFormationPermissions</a> <a href="#">glue:FederatedAuthorizationSource</a>	
<a href="#">UpdateTableOptimizer</a>	Grants permission to update the configuration for an existing table optimizer	Write	<a href="#">database*</a>		glue:GetTable

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rootcatalog*</a>		
			<a href="#">table*</a>		
<a href="#">UpdateTrigger</a>	Grants permission to update a trigger	Write	<a href="#">trigger*</a>		
<a href="#">UpdateUsageProfile</a>	Grants permission to update a usage profile	Write	<a href="#">usageProfile*</a>		
<a href="#">UpdateUserDefinedFunction</a>	Grants permission to update a function definition	Write	<a href="#">database*</a>		
			<a href="#">rootcatalog*</a>		
			<a href="#">userdefinedfunction*</a>		
			<a href="#">catalog</a>		
				<a href="#">glue:LakeFormationPermissions</a>	
<a href="#">UpdateWorkflow</a>	Grants permission to update a workflow	Write	<a href="#">workflow*</a>		
<a href="#">UpgradeJob</a>	Grants permission to upgrade a job to the latest version	Write	<a href="#">job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UseGlueStudio</a>	Grants permission to use Glue Studio and access its internal APIs	Permissions management			
<a href="#">UseMLTransforms</a> [permission only]	Grants permission to use an ML Transform from within a Glue ETL Script	Write	<a href="#">mlTransform*</a>		

## Resource types defined by AWS Glue

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">rootcatalog</a>	arn:\${Partition}:glue:\${Region}:\${Account}:catalog	
<a href="#">catalog</a>	arn:\${Partition}:glue:\${Region}:\${Account}:catalog/\${CatalogName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">database</a>	arn:\${Partition}:glue:\${Region}:\${Account}:database/\${DatabaseName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">table</a>	arn:\${Partition}:glue:\${Region}:\${Account}:table/\${DatabaseName}/\${TableName}	
<a href="#">tableversion</a>	arn:\${Partition}:glue:\${Region}:\${Account}:tableVersion/\${DatabaseName}/\${TableName}/\${TableVersionName}	
<a href="#">connection</a>	arn:\${Partition}:glue:\${Region}:\${Account}:connection/\${ConnectionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">userdefinedfunction</a>	arn:\${Partition}:glue:\${Region}:\${Account}:userDefinedFunction/\${DatabaseName}/\${UserDefinedFunctionName}	
<a href="#">devendpoint</a>	arn:\${Partition}:glue:\${Region}:\${Account}:devEndpoint/\${DevEndpointName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job</a>	arn:\${Partition}:glue:\${Region}:\${Account}:job/\${JobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">trigger</a>	arn:\${Partition}:glue:\${Region}:\${Account}:trigger/\${TriggerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">crawler</a>	arn:\${Partition}:glue:\${Region}:\${Account}:crawler/\${CrawlerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workflow</a>	arn:\${Partition}:glue:\${Region}:\${Account}:workflow/\${WorkflowName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">blueprint</a>	arn:\${Partition}:glue:\${Region}:\${Account}:blueprint/\${BlueprintName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mlTransform</a>	arn:\${Partition}:glue:\${Region}:\${Account}:mlTransform/\${TransformId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">registry</a>	arn:\${Partition}:glue:\${Region}:\${Account}:registry/\${RegistryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">schema</a>	arn:\${Partition}:glue:\${Region}:\${Account}:schema/\${SchemaName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">session</a>	arn:\${Partition}:glue:\${Region}:\${Account}:session/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">usageProfile</a>	arn:\${Partition}:glue:\${Region}:\${Account}:usageProfile/\${UsageProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dataQualityRuleset</a>	arn:\${Partition}:glue:\${Region}:\${Account}:dataQualityRuleset/\${RulesetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">customEntityType</a>	arn:\${Partition}:glue:\${Region}:\${Account}:customEntityType/\${CustomEntityTypeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">completion</a>	arn:\${Partition}:glue:\${Region}:\${Account}:completion/\${CompletionId}	
<a href="#">integration</a>	arn:\${Partition}:glue:\${Region}:\${Account}:integration:\${IntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connectionType</a>	arn:\${Partition}:glue:\${Region}:\${Account}:connectionType:\${ConnectionTypeName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">integrationResourceProperty</a>	arn:\${Partition}:glue:\${Region}:\${Account}:integrationresourceproperty/\${ResourceType}/\${ResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>



## Condition keys for AWS Glue

AWS Glue defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">glue:CredentialssuingService</a>	Filters access by the service from which the credentials of the request is issued	String
<a href="#">glue:EnabledForRedshiftAutoDiscovery</a>	Filters access by the presence of the key configured for role's identity-based policy	Bool
<a href="#">glue:FederatedAuthorizationSource</a>	Filters access by whether the resource belongs to federated authorization	String
<a href="#">glue:LakeFormationPermissions</a>	Filters access by whether Lake Formation permission checks will be performed for a given caller and the Glue resource	String

Condition keys	Description	Type
<a href="#">glue:RoleAssumedBy</a>	Filters access by the service from which the credentials of the request is obtained by assuming the customer role	String
<a href="#">glue:SecurityGroupIds</a>	Filters access by the ID of security groups configured for the Glue job	ArrayOfString
<a href="#">glue:SubnetIds</a>	Filters access by the ID of subnets configured for the Glue job	ArrayOfString
<a href="#">glue:VpcIds</a>	Filters access by the ID of the VPC configured for the Glue job	ArrayOfString

## Actions, resources, and condition keys for AWS Glue DataBrew

AWS Glue DataBrew (service prefix: `databrew`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Glue DataBrew](#)
- [Resource types defined by AWS Glue DataBrew](#)
- [Condition keys for AWS Glue DataBrew](#)

## Actions defined by AWS Glue DataBrew

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteRecipeVersion</a>	Grants permission to delete one or more recipe versions	Write	<a href="#">Recipe*</a>		
<a href="#">CreateDataset</a>	Grants permission to create a dataset	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateProfileJob</a>	Grants permission to create a profile job	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateProject</a>	Grants permission to create a project	Write		<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateRecipe</a>	Grants permission to create a recipe	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRecipeJob</a>	Grants permission to create a recipe job	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateRuleset</a>	Grants permission to create a ruleset	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSchedule</a>	Grants permission to create a schedule	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDataset</a>	Grants permission to delete a dataset	Write	<a href="#">Dataset*</a>		
<a href="#">DeleteJob</a>	Grants permission to delete a job	Write	<a href="#">Job*</a>		
<a href="#">DeleteProject</a>	Grants permission to delete a project	Write	<a href="#">Project*</a>		
<a href="#">DeleteRecipeVersion</a>	Grants permission to delete a recipe version	Write	<a href="#">Recipe*</a>		
<a href="#">DeleteRuleset</a>	Grants permission to delete a ruleset	Write	<a href="#">Ruleset*</a>		
<a href="#">DeleteSchedule</a>	Grants permission to delete a schedule	Write	<a href="#">Schedule*</a>		
<a href="#">DescribeDataset</a>	Grants permission to view details about a dataset	Read	<a href="#">Dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeJob</a>	Grants permission to view details about a job	Read	<a href="#">Job*</a>		
<a href="#">DescribeJobRun</a>	Grants permission to view details about job run for a given job	Read	<a href="#">Job*</a>		
<a href="#">DescribeProject</a>	Grants permission to view details about a project	Read	<a href="#">Project*</a>		
<a href="#">DescribeRecipe</a>	Grants permission to view details about a recipe	Read	<a href="#">Recipe*</a>		
<a href="#">DescribeRuleset</a>	Grants permission to view details about a ruleset	Read	<a href="#">Ruleset*</a>		
<a href="#">DescribeSchedule</a>	Grants permission to view details about a schedule	Read	<a href="#">Schedule*</a>		
<a href="#">ListDatasets</a>	Grants permission to list datasets in your account	Read			
<a href="#">ListJobRuns</a>	Grants permission to list job runs for a given job	Read	<a href="#">Job*</a>		
<a href="#">ListJobs</a>	Grants permission to list jobs in your account	Read			
<a href="#">ListProjects</a>	Grants permission to list projects in your account	Read			
<a href="#">ListRecipeVersions</a>	Grants permission to list versions in your recipe	Read	<a href="#">Recipe*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecipes</a>	Grants permission to list recipes in your account	Read			
<a href="#">ListRulesets</a>	Grants permission to list rulesets in your account	Read			
<a href="#">ListSchedules</a>	Grants permission to list schedules in your account	Read			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve tags associated with a resource	Read	<a href="#">Dataset</a>		
			<a href="#">Job</a>		
			<a href="#">Project</a>		
			<a href="#">Recipe</a>		
			<a href="#">Ruleset</a>		
<a href="#">Schedule</a>					
<a href="#">PublishRecipe</a>	Grants permission to publish a major version of a recipe	Write	<a href="#">Recipe*</a>		
<a href="#">SendProjectSessionAction</a>	Grants permission to submit an action to the interactive session for a project	Write	<a href="#">Project*</a>		
<a href="#">StartJobRun</a>	Grants permission to start running a job	Write	<a href="#">Job*</a>		
<a href="#">StartProjectSession</a>	Grants permission to start an interactive session for a project	Write	<a href="#">Project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopJobRun</a>	Grants permission to stop a job run for a job	Write	<a href="#">Job*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">Dataset</a>		
			<a href="#">Job</a>		
			<a href="#">Project</a>		
			<a href="#">Recipe</a>		
			<a href="#">Ruleset</a>		
			<a href="#">Schedule</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
	<a href="#">aws:TagKeys</a>				
<a href="#">UntagResource</a>	Grants permission to remove tags associated with a resource	Tagging	<a href="#">Dataset</a>		
			<a href="#">Job</a>		
			<a href="#">Project</a>		
			<a href="#">Recipe</a>		
			<a href="#">Ruleset</a>		
			<a href="#">Schedule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDataset</a>	Grants permission to modify a dataset	Write	<a href="#">Dataset*</a>		
<a href="#">UpdateProfileJob</a>	Grants permission to modify a profile job	Write	<a href="#">Job*</a>		
<a href="#">UpdateProject</a>	Grants permission to modify a project	Write	<a href="#">Project*</a>		
<a href="#">UpdateRecipe</a>	Grants permission to modify a recipe	Write	<a href="#">Recipe*</a>		
<a href="#">UpdateRecipeJob</a>	Grants permission to modify a recipe job	Write	<a href="#">Job*</a>		
<a href="#">UpdateRuleset</a>	Grants permission to modify a ruleset	Write	<a href="#">Ruleset*</a>		
<a href="#">UpdateSchedule</a>	Grants permission to modify a schedule	Write	<a href="#">Schedule*</a>		

## Resource types defined by AWS Glue DataBrew

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Project</a>	arn:\${Partition}:databrew:\${Region}:\${Account}:project/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Dataset</a>	arn:\${Partition}:databrew:\${Region}:\${Account}:dataset/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Ruleset</a>	arn:\${Partition}:databrew:\${Region}:\${Account}:ruleset/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Recipe</a>	arn:\${Partition}:databrew:\${Region}:\${Account}:recipe/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Job</a>	arn:\${Partition}:databrew:\${Region}:\${Account}:job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Schedule</a>	arn:\${Partition}:databrew:\${Region}:\${Account}:schedule/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Glue DataBrew

AWS Glue DataBrew defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Ground Station

AWS Ground Station (service prefix: `groundstation`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Ground Station](#)
- [Resource types defined by AWS Ground Station](#)
- [Condition keys for AWS Ground Station](#)

## Actions defined by AWS Ground Station

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelContact</a>	Grants permission to cancel a contact	Write	<a href="#">Contact*</a>		
<a href="#">CreateConfig</a>	Grants permission to create a configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataflowEndpointGroup</a>	Grants permission to create a data flow endpoint group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataflowEndpointGroupV2</a>	Grants permission to create a data flow endpoint group using the V2 operation	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEphemeris</a>	Grants permission to create an ephemeris item	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateMissionProfile</a>	Grants permission to create a mission profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConfig</a>	Grants permission to delete a config	Write	<a href="#">Config*</a>		
<a href="#">DeleteDataflowEndpointGroup</a>	Grants permission to delete a data flow endpoint group	Write	<a href="#">DataflowEndpointGroup*</a>		
<a href="#">DeleteEphemeris</a>	Grants permission to delete an ephemeris item	Write	<a href="#">EphemerisItem*</a>		
<a href="#">DeleteMissionProfile</a>	Grants permission to delete a mission profile	Write	<a href="#">MissionProfile*</a>		
<a href="#">DescribeContact</a>	Grants permission to describe a contact	Read	<a href="#">Contact*</a>		
<a href="#">DescribeEphemeris</a>	Grants permission to describe an ephemeris item	Read	<a href="#">EphemerisItem*</a>		
<a href="#">GetAgentConfiguration</a>	Grants permission to get the configuration of an agent	Read	<a href="#">Agent*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAgentTaskResponseUrl</a>	Grants permission to retrieve presigned S3 logging URLs	Read	<a href="#">Agent*</a>		
<a href="#">GetConfig</a>	Grants permission to return a configuration	Read	<a href="#">Config*</a>		
<a href="#">GetDataflowEndpointGroup</a>	Grants permission to return a data flow endpoint group	Read	<a href="#">DataflowEndpointGroup*</a>		
<a href="#">GetMinuteUsage</a>	Grants permission to return minutes usage	Read			
<a href="#">GetMissionProfile</a>	Grants permission to retrieve a mission profile	Read	<a href="#">MissionProfile*</a>		
<a href="#">GetSatellite</a>	Grants permission to return information about a satellite	Read	<a href="#">Satellite*</a>		
<a href="#">ListConfigs</a>	Grants permission to return a list of past configurations	List			
<a href="#">ListContacts</a>	Grants permission to return a list of contacts	List			
<a href="#">ListDataflowEndpointGroups</a>	Grants permission to list data flow endpoint groups	List			
<a href="#">ListEphemerides</a>	Grants permission to list ephemerides	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGroundStations</a>	Grants permission to list ground stations	List			
<a href="#">ListMissionProfiles</a>	Grants permission to return a list of mission profiles	List			
<a href="#">ListSatellites</a>	Grants permission to list satellites	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">Config</a>		
			<a href="#">Contact</a>		
			<a href="#">DataflowEndpointGroup</a>		
			<a href="#">MissionProfile</a>		
<a href="#">RegisterAgent</a>	Grants permission to register an agent	Write			
<a href="#">ReserveContact</a>	Grants permission to reserve a contact	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to assign a resource tag	Tagging	<a href="#">Config</a>		
			<a href="#">Contact</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">DataflowEndpointGroup</a>		
			<a href="#">EphemeralItem</a>		
			<a href="#">MissionProfile</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to unassign a resource tag	Tagging	<a href="#">Config</a>		
			<a href="#">Contact</a>		
			<a href="#">DataflowEndpointGroup</a>		
			<a href="#">EphemeralItem</a>		
			<a href="#">MissionProfile</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAgentStatus</a>	Grants permission to update the status of an agent	Write	<a href="#">Agent*</a>		
<a href="#">UpdateConfig</a>	Grants permission to update a configuration	Write	<a href="#">Config*</a>		
<a href="#">UpdateEphemeris</a>	Grants permission to update an ephemeris item	Write	<a href="#">EphemerisItem*</a>		
<a href="#">UpdateMissionProfile</a>	Grants permission to update a mission profile	Write	<a href="#">MissionProfile*</a>		

## Resource types defined by AWS Ground Station

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Config</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:config/\${ConfigType}/\${ConfigId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">groundstation:ConfigId</a>  <a href="#">groundstation:ConfigType</a>

Resource types	ARN	Condition keys
<a href="#">Contact</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:contact/\${ContactId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">groundstation:ContactId</a>
<a href="#">DataflowEndpointGroup</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:dataflow-endpoint-group/\${DataflowEndpointGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">groundstation&gt;DataflowEndpointGroupId</a>
<a href="#">EphemerisItem</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:ephemeris/\${EphemerisId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">groundstation:EphemerisId</a>
<a href="#">GroundStationResource</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:groundstation:\${GroundStationId}	<a href="#">groundstation:GroundStationId</a>
<a href="#">MissionProfile</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:mission-profile/\${MissionProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">groundstation:MissionProfileId</a>
<a href="#">Satellite</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:satellite/\${SatelliteId}	<a href="#">groundstation:SatelliteId</a>
<a href="#">Agent</a>	arn:\${Partition}:groundstation:\${Region}:\${Account}:agent/\${AgentId}	<a href="#">groundstation:AgentId</a>

## Condition keys for AWS Ground Station

AWS Ground Station defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">groundstation:AgentId</a>	Filters access by the ID of an agent	String
<a href="#">groundstation:ConfigId</a>	Filters access by the ID of a config	String
<a href="#">groundstation:ConfigType</a>	Filters access by the type of a config	String
<a href="#">groundstation:ContactId</a>	Filters access by the ID of a contact	String
<a href="#">groundstation&gt;DataflowEndpointGroupId</a>	Filters access by the ID of a dataflow endpoint group	String

Condition keys	Description	Type
<a href="#">groundstation:EphemerisId</a>	Filters access by the ID of an ephemeris	String
<a href="#">groundstation:GroundStationId</a>	Filters access by the ID of a ground station	String
<a href="#">groundstation:MissionProfileId</a>	Filters access by the ID of a mission profile	String
<a href="#">groundstation:SatelliteId</a>	Filters access by the ID of a satellite	String

## Actions, resources, and condition keys for Amazon GroundTruth Labeling

Amazon GroundTruth Labeling (service prefix: `groundtruthlabeling`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon GroundTruth Labeling](#)
- [Resource types defined by Amazon GroundTruth Labeling](#)
- [Condition keys for Amazon GroundTruth Labeling](#)

## Actions defined by Amazon GroundTruth Labeling

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the



Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociatePatchToManifestJob</a> [permission only]	Grants permission to associate a patch file with the manifest file to update the manifest file	Write			
<a href="#">CreateBatch</a> [permission only]	Grants permission to create a GT+ Batch	Write			
<a href="#">CreateIntakeForm</a> [permission only]	Grants permission to create intake form	Write			
<a href="#">CreateProject</a> [permission only]	Grants permission to create a GT+ Project	Write			
<a href="#">CreateWorkflowDefinition</a> [permission only]	Grants permission to create a GT+ Workflow Definition	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeConsoleJob</a> [permission only]	Grants permission to get status of GroundTruthLabeling Jobs	Read			
<a href="#">GenerateLiDARPreviewTaskConfigJob</a> [permission only]	Grants permission to generate LiDAR Preview Task	Write			
<a href="#">GetBatch</a> [permission only]	Grants permission to get a GT + Batch	Read			
<a href="#">GetIntakeFormStatus</a> [permission only]	Grants permission to get a intake forms	Read			
<a href="#">ListBatches</a> [permission only]	Grants permission to list a GT + Batches	Read			
<a href="#">ListDatasetObjects</a> [permission only]	Grants permission to list dataset objects in a manifest file	Read			
<a href="#">ListProjects</a> [permission only]	Grants permission to list a GT + Projects	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RunFilterOrSampleDatasetJob</a> [permission only]	Grants permission to filter records from a manifest file using S3 select. Get sample entries based on random sampling	Write			
<a href="#">RunGenerateManifestByCrawlingJob</a> [permission only]	Grants permission to list a S3 prefix and create manifest files from objects in that location	Write			
<a href="#">RunGenerateManifestMetricsJob</a> [permission only]	Grants permission to generate metrics from objects in manifest	Write			
<a href="#">UpdateBatch</a> [permission only]	Grants permission to update a GT+ Batch	Write			

## Resource types defined by Amazon GroundTruth Labeling

Amazon GroundTruth Labeling does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon GroundTruth Labeling, specify "Resource": "\*" in your policy.

## Condition keys for Amazon GroundTruth Labeling

GroundTruth Labeling has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon GuardDuty

Amazon GuardDuty (service prefix: `guardduty`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon GuardDuty](#)
- [Resource types defined by Amazon GuardDuty](#)
- [Condition keys for Amazon GuardDuty](#)

## Actions defined by Amazon GuardDuty

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAdminInvitation</a>	Grants permission to accept invitations to become a GuardDuty member account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptInvitation</a>	Grants permission to accept invitations to become a GuardDuty member account	Write			
<a href="#">ArchiveFindings</a>	Grants permission to archive GuardDuty findings	Write			
<a href="#">CreateDetector</a>	Grants permission to create a detector	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateFilter</a>	Grants permission to create GuardDuty filters. A filter defines finding attributes and conditions used to filter findings	Write	<a href="#">filter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIPSet</a>	Grants permission to create an IPSet	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:DeleteRolePolicy  iam:PutRolePolicy
<a href="#">CreateMalwareProtectionPlan</a>	Grants permission to create a new Malware Protection plan	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateMembers</a>	Grants permission to create GuardDuty member accounts, where the account used to create a member becomes the GuardDuty administrator account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePublishingDestination</a>	Grants permission to create a publishing destination	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject  s3:ListBucket
<a href="#">CreateSampleFindings</a>	Grants permission to create sample findings	Write			
<a href="#">CreateThreatEntitySet</a>	Grants permission to create GuardDuty ThreatEntitySets, where a ThreatEntitySet consists of known malicious IP addresses and/or domains used by GuardDuty to generate findings	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">CreateThreatIntelSet</a>	Grants permission to create GuardDuty ThreatIntelSets, where a ThreatIntelSet consists of known malicious IP addresses used by GuardDuty to generate findings	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrustedEntitySet</a>	Grants permission to create a TrustedEntitySet	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">DeclineInvitations</a>	Grants permission to decline invitations to become a GuardDuty member account	Write			
<a href="#">DeleteDetector</a>	Grants permission to delete GuardDuty detectors	Write	<a href="#">detector*</a>		
<a href="#">DeleteFilter</a>	Grants permission to delete GuardDuty filters	Write	<a href="#">filter*</a>		
<a href="#">DeleteIPSet</a>	Grants permission to delete GuardDuty IPSets	Write	<a href="#">ipset*</a>		
<a href="#">DeleteInvitations</a>	Grants permission to delete invitations to become a GuardDuty member account	Write			
<a href="#">DeleteMalwareProtectionPlan</a>	Grants permission to delete a Malware Protection plan	Write	<a href="#">malwareprotectionplan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMembers</a>	Grants permission to delete GuardDuty member accounts	Write			
<a href="#">DeletePublishingDestination</a>	Grants permission to delete a publishing destination	Write	<a href="#">publishingDestination*</a>		
<a href="#">DeleteThreatEntitySet</a>	Grants permission to delete GuardDuty ThreatEntitySets	Write	<a href="#">threatentityset*</a>		
<a href="#">DeleteThreatIntelSet</a>	Grants permission to delete GuardDuty ThreatIntelSets	Write	<a href="#">threatintelset*</a>		
<a href="#">DeleteTrustedEntitySet</a>	Grants permission to delete GuardDuty TrustedEntitySets	Write	<a href="#">trustedentityset*</a>		
<a href="#">DescribeMalwareScans</a>	Grants permission to retrieve details about malware scans	Read			
<a href="#">DescribeOrganizationConfiguration</a>	Grants permission to retrieve details about the delegated administrator associated with a GuardDuty detector	Read			
<a href="#">DescribePublishingDestination</a>	Grants permission to retrieve details about a publishing destination	Read	<a href="#">publishingDestination*</a>		
<a href="#">DisableOrganizationAdminAccount</a>	Grants permission to disable the organization delegated administrator for GuardDuty	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateFromAdministratorAccount</a>	Grants permission to disassociate a GuardDuty member account from its GuardDuty administrator account	Write			
<a href="#">DisassociateFromMasterAccount</a>	Grants permission to disassociate a GuardDuty member account from its GuardDuty administrator account	Write			
<a href="#">DisassociateMembers</a>	Grants permission to disassociate GuardDuty member accounts from their administrator GuardDuty account	Write			
<a href="#">EnableOrganizationAdminAccount</a>	Grants permission to enable an organization delegated administrator for GuardDuty	Write			
<a href="#">GetAdministratorAccount</a>	Grants permission to retrieve details of the GuardDuty administrator account associated with a member account	Read			
<a href="#">GetCoverageStatistics</a>	Grants permission to list Amazon GuardDuty coverage statistics for the specified GuardDuty account in a Region	Read	<a href="#">detector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDetector</a>	Grants permission to retrieve GuardDuty detectors	Read	<a href="#">detector*</a>		
<a href="#">GetFilter</a>	Grants permission to retrieve GuardDuty filters	Read	<a href="#">filter*</a>		
<a href="#">GetFindings</a>	Grants permission to retrieve GuardDuty findings	Read			
<a href="#">GetFindingsStatistics</a>	Grants permission to retrieve a list of GuardDuty finding statistics	Read			
<a href="#">GetIPSet</a>	Grants permission to retrieve GuardDuty IPSets	Read	<a href="#">ipset*</a>		
<a href="#">GetInvitationsCount</a>	Grants permission to retrieve the count of all GuardDuty invitations sent to a specified account, which does not include the accepted invitation	Read			
<a href="#">GetMalwareProtectionPlan</a>	Grants permission to retrieve a Malware Protection plan details	Read	<a href="#">malwareprotectionplan*</a>		
<a href="#">GetMalwareScan</a>	Grants permission to retrieve a malware scan's details	Read			
<a href="#">GetMalwareScanSettings</a>	Grants permission to retrieve the malware scan settings	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMasterAccount</a>	Grants permission to retrieve details of the GuardDuty administrator account associated with a member account	Read			
<a href="#">GetMemberDetectors</a>	Grants permission to describe which data sources are enabled for member accounts detectors	Read			
<a href="#">GetMembers</a>	Grants permission to retrieve the member accounts associated with an administrator account	Read			
<a href="#">GetOrganizationStatistics</a>	Grants permission to retrieve GuardDuty protection plan coverage statistics for member accounts in a Region	Read			
<a href="#">GetRemainingFreeTrialDays</a>	Grants permission to provide the number of days left for each data source used in the free trial period	Read			
<a href="#">GetThreatEntitySet</a>	Grants permission to retrieve GuardDuty ThreatEntitySets	Read	<a href="#">threatentityset*</a>		
<a href="#">GetThreatIntelSet</a>	Grants permission to retrieve GuardDuty ThreatIntelSets	Read	<a href="#">threatintelset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTrustedEntitySet</a>	Grants permission to retrieve GuardDuty TrustedEntitySets	Read	<a href="#">trustedentityset*</a>		
<a href="#">GetUsageStatistics</a>	Grants permission to list Amazon GuardDuty usage statistics over the last 30 days for the specified detector ID	Read			
<a href="#">InviteMembers</a>	Grants permission to invite other AWS accounts to enable GuardDuty and become GuardDuty member accounts	Write			
<a href="#">ListCoverage</a>	Grants permission to list all the resource details for a given account in a Region	List	<a href="#">detector*</a>		
<a href="#">ListDetectors</a>	Grants permission to retrieve a list of GuardDuty detectors	List			
<a href="#">ListFilters</a>	Grants permission to retrieve a list of GuardDuty filters	List			
<a href="#">ListFindings</a>	Grants permission to retrieve a list of GuardDuty findings	List			
<a href="#">ListIPSets</a>	Grants permission to retrieve a list of GuardDuty IPSets	List			
<a href="#">ListInvitations</a>	Grants permission to retrieve a list of all of the GuardDuty membership invitations that were sent to an AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMalwareProtectionPlans</a>	Grants permission to retrieve a list of Malware Protection plans	List			
<a href="#">ListMalwareScans</a>	Grants permission to retrieve a list of malware scans	List			
<a href="#">ListMembers</a>	Grants permission to retrieve a list of GuardDuty member accounts associated with an administrator account	List			
<a href="#">ListOrganizationAdminAccounts</a>	Grants permission to list details about the organization delegated administrator for GuardDuty	List			
<a href="#">ListPublishingDestinations</a>	Grants permission to retrieve a list of publishing destinations	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of tags associated with a GuardDuty resource	Read	<a href="#">detector</a>		
			<a href="#">filter</a>		
			<a href="#">ipset</a>		
			<a href="#">malwareprotectionplan</a>		
			<a href="#">publishingDestination</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">threatentityset</a>		
			<a href="#">threatintelset</a>		
			<a href="#">trustedentityset</a>		
<a href="#">ListThreatEntitySets</a>	Grants permission to retrieve a list of GuardDuty ThreatEntitySets	List			
<a href="#">ListThreatIntelSets</a>	Grants permission to retrieve a list of GuardDuty ThreatIntelSets	List			
<a href="#">ListTrustedEntitySets</a>	Grants permission to retrieve a list of GuardDuty TrustedEntitySets	List			
<a href="#">SendObjectMalwareScan</a>	Grants permission to initiate a new object malware scan	Write			
<a href="#">SendSecurityTelemetry</a>	Grants permission to send security telemetry for a specific GuardDuty account in a Region	Write			
<a href="#">StartMalwareScan</a>	Grants permission to initiate a new malware scan	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMonitoringMembers</a>	Grants permission to a GuardDuty administrator account to monitor findings from GuardDuty member accounts	Write			
<a href="#">StopMonitoringMembers</a>	Grants permission to disable monitoring findings from member accounts	Write			
<a href="#">TagResource</a>	Grants permission to add tags to a GuardDuty resource	Tagging	<a href="#">detector</a>		
			<a href="#">filter</a>		
			<a href="#">ipset</a>		
			<a href="#">malwareprotectionplan</a>		
			<a href="#">publishingDestination</a>		
			<a href="#">threatintityset</a>		
			<a href="#">threatintelset</a>		
			<a href="#">trustedentityset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">Unarchive Findings</a>	Grants permission to unarchive GuardDuty findings	Write			
<a href="#">UntagResource</a>	Grants permission to remove tags from a GuardDuty resource	Tagging	<a href="#">detector</a> <a href="#">filter</a> <a href="#">ipset</a> <a href="#">malwareprotectionplan</a> <a href="#">publishingDestination</a> <a href="#">threatentityset</a> <a href="#">threatintelset</a> <a href="#">trustedentityset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDetector</a>	Grants permission to update GuardDuty detectors	Write	<a href="#">detector*</a>		
<a href="#">UpdateFilter</a>	Grants permission to update GuardDuty filters	Write	<a href="#">filter*</a>		
<a href="#">UpdateFindingsFeedback</a>	Grants permission to update findings feedback to mark GuardDuty findings as useful or not useful	Write			
<a href="#">UpdateIPSet</a>	Grants permission to update GuardDuty IP Sets	Write	<a href="#">ipset*</a>		iam:DeleteRolePolicy iam:PutRolePolicy
<a href="#">UpdateMalwareProtectionPlan</a>	Grants permission to update the Malware Protection plan	Write	<a href="#">malwareprotectionplan*</a>		
<a href="#">UpdateMalwareScanSettings</a>	Grants permission to update the malware scan settings	Write			
<a href="#">UpdateMemberDetectors</a>	Grants permission to update which data sources are enabled for member accounts detectors	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOrganizationConfiguration</a>	Grants permission to update the delegated administrator configuration associated with a GuardDuty detector	Write			
<a href="#">UpdatePublishingDestination</a>	Grants permission to update a publishing destination	Write	<a href="#">publishingDestination*</a>		s3:GetObject  s3:ListBucket
<a href="#">UpdateThreatEntitySet</a>	Grants permission to update GuardDuty ThreatEntitySets	Write	<a href="#">threatentityset*</a>		s3:GetObject
<a href="#">UpdateThreatIntelSet</a>	Grants permission to updates the GuardDuty ThreatIntelSets	Write	<a href="#">threatintelset*</a>		iam:DeleteRolePolicy  iam:PutRolePolicy
<a href="#">UpdateTrustedEntitySet</a>	Grants permission to update GuardDuty TrustedEntitySets	Write	<a href="#">trustedentityset*</a>		s3:GetObject

## Resource types defined by Amazon GuardDuty

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">detector</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">filter</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}/filter/\${FilterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ipset</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}/ipset/\${IPSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">threatintelset</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}/threatintelset/\${ThreatIntelSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">trustedentityset</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}/trustedentityset/\${TrustedEntitySetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">threatentityset</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}/threatentityset/\${ThreatEntitySetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">publishingdestination</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:detector/\${DetectorId}/publishingdestination/\${PublishingDestinationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">malwareprotectionplan</a>	arn:\${Partition}:guardduty:\${Region}:\${Account}:malware-protection-plan/\${MalwareProtectionPlanId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon GuardDuty

Amazon GuardDuty defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Health APIs and Notifications

AWS Health APIs and Notifications (service prefix: `health`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Health APIs and Notifications](#)
- [Resource types defined by AWS Health APIs and Notifications](#)
- [Condition keys for AWS Health APIs and Notifications](#)

## Actions defined by AWS Health APIs and Notifications

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAffectedAccountsForOrganization</a>	Grants permission to retrieve a list of accounts that have been affected by the specified events in organization	Read			organizations:ListAccounts
<a href="#">DescribeAffectedEntities</a>	Grants permission to retrieve a list of entities that have been affected by the specified events	Read	<a href="#">event*</a>	<a href="#">health:eventTypeCode</a> <a href="#">health:service</a>	
<a href="#">DescribeAffectedEntitiesForOrganization</a>	Grants permission to retrieve a list of entities that have been affected by the specified events and accounts in organization	Read			organizations:ListAccounts
<a href="#">DescribeEntityAggregates</a>	Grants permission to retrieve the number of entities that are affected by each of the specified events	Read			
<a href="#">DescribeEntityAggr</a>	Grants permission to retrieve the number of entities that are affected by each of	Read			organizations:ListAccounts



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AggregatesForOrganization</a>	the specified events in an organization				
<a href="#">DescribeEventAggregates</a>	Grants permission to retrieve the number of events of each event type (issue, scheduled change, and account notification)	Read			
<a href="#">DescribeEventDetails</a>	Grants permission to retrieve detailed information about one or more specified events	Read	<a href="#">event*</a>	<a href="#">health:eventTypeCode</a> <a href="#">health:service</a>	
<a href="#">DescribeEventDetailsForOrganization</a>	Grants permission to retrieve detailed information about one or more specified events for provided accounts in organization	Read			organizations:ListAccounts
<a href="#">DescribeEventTypes</a>	Grants permission to retrieve the event types that meet the specified filter criteria	Read			
<a href="#">DescribeEvents</a>	Grants permission to retrieve information about events that meet the specified filter criteria	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEventsForOrganization</a>	Grants permission to retrieve information about events that meet the specified filter criteria in organization	Read			organizations:ListAccounts
<a href="#">DescribeHealthServiceStatusForOrganization</a>	Grants permission to retrieve the status of enabling or disabling the Organizational View feature	Read			organizations:ListAccounts
<a href="#">DisableHealthServiceAccessForOrganization</a>	Grants permission to disable the Organizational View feature	Permissions management			organizations:DisableAWSServiceAccess  organizations:ListAccounts
<a href="#">EnableHealthServiceAccessForOrganization</a>	Grants permission to enable the Organizational View feature	Permissions management			iam:CreateServiceLinkedRole  organizations:EnableAWSServiceAccess  organizations:ListAccounts

## Resource types defined by AWS Health APIs and Notifications

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">event</a>	arn:\${Partition}:health:*::event/\${Service}/\${EventTypeCode}/*	

## Condition keys for AWS Health APIs and Notifications

AWS Health APIs and Notifications defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">health:eventTypeCode</a>	Filters access by event type	String
<a href="#">health:service</a>	Filters access by impacted service	String

## Actions, resources, and condition keys for AWS HealthImaging

AWS HealthImaging (service prefix: `medical-imaging`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS HealthImaging](#)
- [Resource types defined by AWS HealthImaging](#)
- [Condition keys for AWS HealthImaging](#)

## Actions defined by AWS HealthImaging

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyImageSet</a>	Grants permission to copy an image set	Write	<a href="#">datastore</a> * -		
			<a href="#">imageset*</a>		
<a href="#">CreateDatastore</a>	Grants permission to create a data store to ingest imaging data	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDatastore</a>	Grants permission to delete a data store	Write	<a href="#">datastore</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteImageSet</a>	Grants permission to delete an image set	Write	<a href="#">datastore</a> * -		
			<a href="#">imageset*</a>		
<a href="#">GetDICOMBulkdata</a>	Grants permission to get dicom bulkdata in binary format	Read	<a href="#">datastore</a> * -		
				<a href="#">medical-imaging:StudyInstanceUID</a>	
				<a href="#">medical-imaging:SeriesInstanceUID</a>	
<a href="#">GetDICOMImportJob</a>	Grants permission to get an import job's properties	Read	<a href="#">datastore</a> * -		
<a href="#">GetDICOMInstance</a>	Grants permission to get dicom instance in dcm format	Read	<a href="#">datastore</a> * -		
				<a href="#">medical-imaging:StudyInstanceUID</a>	
				<a href="#">medical-imaging:SeriesInstanceUID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDICOMInstanceFrames</a>	Grants permission to get dicom instance frames in format requested by the customer	Read	<a href="#">datastore*</a> <a href="#">-</a>	<a href="#">medical-imaging:StudyInstanceUID</a>  <a href="#">medical-imaging:SeriesInstanceUID</a>	
<a href="#">GetDICOMInstanceMetadata</a>	Grants permission to get dicom instance metadata in DICOM JSON format	Read	<a href="#">datastore*</a> <a href="#">-</a>	<a href="#">medical-imaging:StudyInstanceUID</a>  <a href="#">medical-imaging:SeriesInstanceUID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDICOMSeriesMetadata</a>	Grants permission to retrieve metadata for all DICOM instances belonging to a given DICOM series in DICOM JSON format	Read	<a href="#">datastore</a> * -	<a href="#">medical-imaging:StudyInstanceUID</a>  <a href="#">medical-imaging:SeriesInstanceUID</a>	
<a href="#">GetDatastore</a>	Grants permission to get data store properties	Read	<a href="#">datastore</a> * -		
<a href="#">GetImageFrame</a>	Grants permission to get image frame properties	Read	<a href="#">datastore</a> * -  <a href="#">imageset*</a>		
<a href="#">GetImageSet</a>	Grants permission to get image set properties	Read	<a href="#">datastore</a> * -  <a href="#">imageset*</a>		
<a href="#">GetImageSetMetadata</a>	Grants permission to get image set metadata properties	Read	<a href="#">datastore</a> * -  <a href="#">imageset*</a>		
<a href="#">ListDICOMImportJobs</a>	Grants permission to list import jobs for a data store	List	<a href="#">datastore</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDatastores</a>	Grants permission to list data stores	List			
<a href="#">ListImageSetVersions</a>	Grants permission to list versions of an image set	List	<a href="#">datastore</a> * -		
			<a href="#">imageset*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a medical imaging resource	List	<a href="#">datastore</a>		
			<a href="#">imageset</a>		
<a href="#">SearchDICOMInstances</a>	Grants permission to search dicom instances that returns data in DICOM JSON format	Read	<a href="#">datastore</a> * -		
				<a href="#">medical-imaging:StudyInstanceUID</a>	
				<a href="#">medical-imaging:SeriesInstanceUID</a>	
<a href="#">SearchDICOMSeries</a>	Grants permission to search dicom series that returns data in DICOM JSON format	Read	<a href="#">datastore</a> * -		
				<a href="#">medical-imaging:StudyInstanceUID</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchDICOMStudies</a>	Grants permission to search dicom studies that returns data in DICOM JSON format	Read	<a href="#">datastore</a> * -		
<a href="#">SearchImageSets</a>	Grants permission to search image sets	Read	<a href="#">datastore</a> * -		
<a href="#">StartDICOMImportJob</a>	Grants permission to start a DICOM import job	Write	<a href="#">datastore</a> * -		
<a href="#">StoreDICOM</a>	Grants permission to store dicom instances that returns result in DICOM JSON format	Write	<a href="#">datastore</a> * -		
<a href="#">StoreDICOMStudy</a>	Grants permission to store a dicom study that returns result in DICOM JSON format	Write	<a href="#">datastore</a> * -	<a href="#">medical-imaging:StudyInstanceUID</a>	
<a href="#">TagResource</a>	Grants permission to add tags to a medical imaging resource	Tagging	<a href="#">datastore</a> <a href="#">imageset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a medical imaging resource	Tagging	<a href="#">datastore</a> <a href="#">imageset</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateImageSetMetadata</a>	Grants permission to update image set metadata properties	Write	<a href="#">datastore*</a> <a href="#">imageset*</a>		

## Resource types defined by AWS HealthImaging

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">datastore</a>	arn:\${Partition}:medical-imaging:\${Region}:\${Account}:datastore/\${DatastoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">imageset</a>	arn:\${Partition}:medical-imaging:\${Region}:\${Account}:datastore/\${DatastoreId}/imageset/\${ImageSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS HealthImaging

AWS HealthImaging defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">medical-imaging:SeriesInstanceUID</a>	Filters access by the SeriesInstanceUID parameter in the request	String

Condition keys	Description	Type
<a href="#">medical-imaging:StudyInstanceUID</a>	Filters access by the StudyInstanceUID parameter in the request	String

## Actions, resources, and condition keys for AWS HealthLake

AWS HealthLake (service prefix: healthlake) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS HealthLake](#)
- [Resource types defined by AWS HealthLake](#)
- [Condition keys for AWS HealthLake](#)

## Actions defined by AWS HealthLake


You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelFHIRExportJobWithDelete</a>	Grants permission to cancel an on going FHIR Export job with Delete	Write	<a href="#">datastore</a> * -		
<a href="#">ConfirmAttributionList</a>	Grants permission to allow customers to indicate to a Producer that the Consumer does not have any more changes to be made to the Attribution List	Write	<a href="#">datastore</a> * -		
<a href="#">CreateFHIRDatastore</a>	Grants permission to create a datastore that can ingest and export FHIR data	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateResource</a>	Grants permission to create resource	Write	<a href="#">datastore</a> * -		
<a href="#">DeleteFHIRDatastore</a>	Grants permission to delete a datastore	Write	<a href="#">datastore</a> * -		
<a href="#">DeleteResource</a>	Grants permission to delete resource	Write	<a href="#">datastore</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFHIRBulkDeleteJob</a>	Grants permission to describe a FHIR Bulk Delete Job	Read	<a href="#">datastore</a> * -		
<a href="#">DescribeFHIRDatastore</a>	Grants permission to get the properties associated with the FHIR datastore, including the datastore ID, datastore ARN, datastore name, datastore status, created at, datastore type version, and datastore endpoint	Read	<a href="#">datastore</a> * -		
<a href="#">DescribeFHIRExportJob</a>	Grants permission to display the properties of a FHIR export job, including the ID, ARN, name, and the status of the datastore	Read	<a href="#">datastore</a> * -		
<a href="#">DescribeFHIRExportJobWithGet</a>	Grants permission to display the properties of a FHIR export job, including the ID, ARN, name, and the status of the datastore with Get	Read	<a href="#">datastore</a> * -		
<a href="#">DescribeFHIRImportJob</a>	Grants permission to display the properties of a FHIR import job, including the ID, ARN, name, and the status of the datastore	Read	<a href="#">datastore</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExpandValueSetWithGet</a>	Grants permission to search and expand ValueSet resource	Read	<a href="#">datastore</a> * -		
<a href="#">ExpandValueSetWithPost</a>	Grants permission to search and expand ValueSet resource	Read	<a href="#">datastore</a> * -		
<a href="#">GenerateDocumentWithGet</a>	Grants permission to generate a clinical document resource	Write	<a href="#">datastore</a> * -		
<a href="#">GenerateDocumentWithPost</a>	Grants permission to generate a clinical document resource	Write	<a href="#">datastore</a> * -		
<a href="#">GetCapabilities</a>	Grants permission to get the capabilities of a FHIR datastore	Read	<a href="#">datastore</a> * -		
<a href="#">GetExportedFile</a>	Grants permission to access exported files from a FHIR Export job initiated with Get	Read	<a href="#">datastore</a> * -		
<a href="#">GetHistoryByResourceId</a>	Grants permission to read resource history	Read	<a href="#">datastore</a> * -		
<a href="#">InquirePriorAuthClaim</a>	Grants permission to inquire about the status of a prior authorization Claim	Read	<a href="#">datastore</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFHIRDatastores</a>	Grants permission to list all FHIR datastores that are in the user's account, regardless of datastore status	List			
<a href="#">ListFHIRExportJobs</a>	Grants permission to get a list of export jobs for the specified datastore	List	<a href="#">datastore</a> * -		
<a href="#">ListFHIRIImportJobs</a>	Grants permission to get a list of import jobs for the specified datastore	List	<a href="#">datastore</a> * -		
<a href="#">ListTagsForResource</a>	Grants permission to get a list of tags for the specified datastore	List	<a href="#">datastore</a>		
<a href="#">LookupCodeSystemWithGet</a>	Grants permission to retrieve Codes for a CodeSystem resource	Read	<a href="#">datastore</a> * -		
<a href="#">LookupCodeSystemWithPost</a>	Grants permission to retrieve Codes for a CodeSystem resource	Read	<a href="#">datastore</a> * -		
<a href="#">MemberAdd</a>	Grants permission to attribute a member with a specific provider group	Write	<a href="#">datastore</a> * -		
<a href="#">MemberMatch</a>	Grants permission to enable cross-system patient matching	Write	<a href="#">datastore</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">MemberRemove</a>	Grants permission to remove a member from a group	Write	<a href="#">datastore</a> * -		
<a href="#">PatchResource</a>	Grants permission to patch a resource	Write	<a href="#">datastore</a> * -		
<a href="#">ProcessBundle</a>	Grants permission to bundle multiple resource operations	Write	<a href="#">datastore</a> * -		
<a href="#">QuestionnairePackage</a>	Grants permission to retrieve Questionnaire packages with dependency Library and ValueSet resources	Read	<a href="#">datastore</a> * -		
<a href="#">ReadResource</a>	Grants permission to read resource	Read	<a href="#">datastore</a> * -		
<a href="#">RetrieveAttributionStatus</a>	Grants permission to retrieve member attribution status	Write	<a href="#">datastore</a> * -		
<a href="#">SearchEverything</a>	Grants permission to search all resources related to a patient	Read	<a href="#">datastore</a> * -		
<a href="#">SearchWithGet</a>	Grants permission to search resources with GET method	Read	<a href="#">datastore</a> * -		
<a href="#">SearchWithPost</a>	Grants permission to search resources with POST method	Read	<a href="#">datastore</a> * -		
<a href="#">StartFHIRBulkDeleteJob</a>	Grants permission to begin a FHIR Bulk Delete Job	Write	<a href="#">datastore</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartFHIRExportJob</a>	Grants permission to begin a FHIR Export job	Write	<a href="#">datastore</a> * -		
<a href="#">StartFHIRExportJobWithGet</a>	Grants permission to begin a FHIR Export job with Get	Write	<a href="#">datastore</a> * -		
<a href="#">StartFHIRExportJobWithPost</a>	Grants permission to begin a FHIR Export job with Post	Write	<a href="#">datastore</a> * -		
<a href="#">StartFHIRImportJob</a>	Grants permission to begin a FHIR Import job	Write	<a href="#">datastore</a> * -		
<a href="#">SubmitPreAuthClaim</a>	Grants permission to submit a prior authorization Claim request	Write	<a href="#">datastore</a> * -		
<a href="#">TagResource</a>	Grants permission to add tags to a datastore	Tagging	<a href="#">datastore</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to remove tags associated with a datastore	Tagging	<a href="#">datastore</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateResource</a>	Grants permission to update resource	Write	<a href="#">datastore</a> *		
<a href="#">ValidateResource</a>	Grants permission to validate a resource	Read	<a href="#">datastore</a> *		
<a href="#">VersionReadResource</a>	Grants permission to read version of a resource	Read	<a href="#">datastore</a> *		

## Resource types defined by AWS HealthLake

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">datastore</a>	arn:\${Partition}:healthlake:\${Region}:\${Account}:datastore/fhir/\${DatastoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS HealthLake

AWS HealthLake defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS HealthOmics

AWS HealthOmics (service prefix: `omics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS HealthOmics](#)
- [Resource types defined by AWS HealthOmics](#)
- [Condition keys for AWS HealthOmics](#)

## Actions defined by AWS HealthOmics

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortMultipartReadSetUpload</a>	Grants permission to abort multipart read set uploads	Write	<a href="#">sequenceStore*</a>		
<a href="#">AcceptShare</a>	Grants permission to accept a share	Write			
<a href="#">BatchDeleteReadSet</a>	Grants permission to batch delete Read Sets in the given Sequence Store	Write	<a href="#">sequenceStore*</a>		
<a href="#">CancelAnnotationImportJob</a>	Grants permission to cancel an Annotation Import Job	Write			
<a href="#">CancelRun</a>	Grants permission to cancel a workflow run and stop all workflow tasks	Write	<a href="#">run*</a>		
<a href="#">CancelVariantImportJob</a>	Grants permission to cancel a Variant Import Job	Write			
<a href="#">CompleteMultipartReadSetUpload</a>	Grants permission to complete a multipart read set upload	Write	<a href="#">sequenceStore*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAnnotationStore</a>	Grants permission to create an Annotation Store	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAnnotationStoreVersion</a>	Grants permission to create a Version in an Annotation Store	Write	<a href="#">AnnotationStore*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfiguration</a>	Grants permission to create a new configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:DescribeSecurityGroups ec2:DescribeSubnets iam:CreateServiceLinkedRole
<a href="#">CreateMultipartReadSetUpload</a>	Grants permission to create a multipart read set upload	Write	<a href="#">sequenceStore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReferenceStore</a>	Grants permission to create a Reference Store	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRunCache</a>	Grants permission to create a new workflow run cache	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRunGroup</a>	Grants permission to create a new workflow run group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSequenceStore</a>	Grants permission to create a Sequence Store	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateShare</a>	Grants permission to create a share	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVariantStore</a>	Grants permission to create a Variant Store	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkflow</a>	Grants permission to create a new workflow with a workflow definition and template of workflow parameters	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkflowVersion</a>	Grants permission to create a new workflow version with a workflow definition and template of workflow parameters	Write	<a href="#">workflow*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAnnotationStore</a>	Grants permission to delete an Annotation Store	Write	<a href="#">AnnotationStore*</a>		
<a href="#">DeleteAnnotationStoreVersions</a>	Grants permission to delete Versions in an Annotation Store	Write	<a href="#">AnnotationStore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">AnnotationStoreVersion*</a>		
<a href="#">DeleteConfiguration</a>	Grants permission to delete a configuration	Write	<a href="#">configuration*</a>		
<a href="#">DeleteReference</a>	Grants permission to delete a Reference in the given Reference Store	Write	<a href="#">reference*</a> <a href="#">referenceStore*</a>		
<a href="#">DeleteReferenceStore</a>	Grants permission to delete a Reference Store	Write	<a href="#">referenceStore*</a>		
<a href="#">DeleteRun</a>	Grants permission to delete a workflow run	Write	<a href="#">run*</a>		
<a href="#">DeleteRunCache</a>	Grants permission to delete a workflow run cache	Write	<a href="#">runCache*</a>		
<a href="#">DeleteRunGroup</a>	Grants permission to delete a workflow run group	Write	<a href="#">runGroup*</a>		
<a href="#">DeleteS3AccessPolicy</a>	Grants permission to delete an access policy on a given store	Write	<a href="#">sequenceStore*</a>		
<a href="#">DeleteSequenceStore</a>	Grants permission to delete a Sequence Store	Write	<a href="#">sequenceStore*</a>		
<a href="#">DeleteShare</a>	Grants permission to delete a share	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVariantStore</a>	Grants permission to delete a Variant Store	Write	<a href="#">VariantStore*</a>		
<a href="#">DeleteWorkflow</a>	Grants permission to delete a workflow	Write	<a href="#">workflow*</a>		
<a href="#">DeleteWorkflowVersion</a>	Grants permission to delete a workflow version	Write	<a href="#">WorkflowVersion*</a>		
<a href="#">DeleteWorkflowVersion</a>	Grants permission to delete a workflow version	Write	<a href="#">workflow*</a>		
<a href="#">GetAnnotationImportJob</a>	Grants permission to get the status of an Annotation Import Job	Read			
<a href="#">GetAnnotationStore</a>	Grants permission to get detailed information about an Annotation Store	Read	<a href="#">AnnotationStore*</a>		
<a href="#">GetAnnotationStoreVersion</a>	Grants permission to get detailed information about a version in an Annotation Store	Read	<a href="#">AnnotationStoreVersion*</a>		
<a href="#">GetConfiguration</a>	Grants permission to retrieve configuration details	Read	<a href="#">configuration*</a>		
<a href="#">GetReadSet</a>	Grants permission to get a Read Set in the given Sequence Store	Read	<a href="#">readSet*</a>		
<a href="#">GetReadSet</a>	Grants permission to get a Read Set in the given Sequence Store	Read	<a href="#">sequenceStore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetReadSetActivationJob</a>	Grants permission to get details about a Read Set activation job for the given Sequence Store	Read	<a href="#">sequenceStore*</a>		
<a href="#">GetReadSetExportJob</a>	Grants permission to get details about a Read Set export job for the given Sequence Store	Read	<a href="#">sequenceStore*</a>		
<a href="#">GetReadSetImportJob</a>	Grants permission to get details about a Read Set import job for the given Sequence Store	Read	<a href="#">sequenceStore*</a>		
<a href="#">GetReadSetMetadata</a>	Grants permission to get details about a Read Set in the given Sequence Store	Read	<a href="#">readSet*</a> <a href="#">sequenceStore*</a>		
<a href="#">GetReference</a>	Grants permission to get a Reference in the given Reference Store	Read	<a href="#">reference*</a> <a href="#">referenceStore*</a>		
<a href="#">GetReferenceImportJob</a>	Grants permission to get details about a Reference import job for the given Reference Store	Read	<a href="#">referenceStore*</a>		
<a href="#">GetReferenceMetadata</a>	Grants permission to get details about a Reference in the given Reference Store	Read	<a href="#">reference*</a> <a href="#">referenceStore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">referenceStore*</a>		
<a href="#">GetReferenceStore</a>	Grants permission to get details about a Reference Store	Read	<a href="#">referenceStore*</a>		
<a href="#">GetRun</a>	Grants permission to retrieve workflow run details	Read	<a href="#">run*</a>		
<a href="#">GetRunCache</a>	Grants permission to retrieve workflow run cache details	Read	<a href="#">runCache*</a>		
<a href="#">GetRunGroup</a>	Grants permission to retrieve workflow run group details	Read	<a href="#">runGroup*</a>		
<a href="#">GetRunTask</a>	Grants permission to retrieve workflow task details	Read	<a href="#">TaskResource*</a>		
			<a href="#">run*</a>		
<a href="#">GetS3AccessPolicy</a>	Grants permission to get details about an access policy on a given store	Read	<a href="#">sequenceStore*</a>		
<a href="#">GetSequenceStore</a>	Grants permission to get details about a Sequence Store	Read	<a href="#">sequenceStore*</a>		
<a href="#">GetShare</a>	Grants permission to get detailed information about a Share	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVariantImportJob</a>	Grants permission to get the status of a Variant Import Job	Read			
<a href="#">GetVariantStore</a>	Grants permission to get detailed information about a Variant Store	Read	<a href="#">VariantStore*</a>		
<a href="#">GetWorkflow</a>	Grants permission to retrieve workflow details	Read	<a href="#">workflow*</a>		
<a href="#">GetWorkflowVersion</a>	Grants permission to retrieve workflow version details	Read	<a href="#">WorkflowVersion*</a> <a href="#">workflow*</a>		
<a href="#">ListAnnotationImportJobs</a>	Grants permission to get a list of Annotation Import Jobs	List			
<a href="#">ListAnnotationStoreVersions</a>	Grants permission to retrieve a list of information about Versions in an Annotation Store	List	<a href="#">AnnotationStore*</a>		
<a href="#">ListAnnotationStores</a>	Grants permission to retrieve a list of information about Annotation Stores	List			
<a href="#">ListConfigurations</a>	Grants permission to retrieve a list of configurations	List			
<a href="#">ListMultiPartReadSetUploads</a>	Grants permission to list multipart read set uploads	List	<a href="#">sequenceStore*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListReadSetActivationJobs</a>	Grants permission to list Read Set activation jobs for the given Sequence Store	List	<a href="#">sequenceStore*</a>		
<a href="#">ListReadSetExportJobs</a>	Grants permission to list Read Set export jobs for the given Sequence Store	List	<a href="#">sequenceStore*</a>		
<a href="#">ListReadSetImportJobs</a>	Grants permission to list Read Set import jobs for the given Sequence Store	List	<a href="#">sequenceStore*</a>		
<a href="#">ListReadSetUploadParts</a>	Grants permission to list read set upload parts	List	<a href="#">sequenceStore*</a>		
<a href="#">ListReadSets</a>	Grants permission to list Read Sets in the given Sequence Store	List	<a href="#">sequenceStore*</a>		
<a href="#">ListReferenceImportJobs</a>	Grants permission to list Reference import jobs for the given Reference Store	List	<a href="#">referenceStore*</a>		
<a href="#">ListReferenceStores</a>	Grants permission to list Reference Stores	List			
<a href="#">ListReferences</a>	Grants permission to list References in the given Reference Store	List	<a href="#">referenceStore*</a>		
<a href="#">ListRunCaches</a>	Grants permission to retrieve a list of workflow run caches	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRunGroups</a>	Grants permission to retrieve a list of workflow run groups	List			
<a href="#">ListRunTasks</a>	Grants permission to retrieve a list of tasks for a workflow run	List	<a href="#">run*</a>		
<a href="#">ListRuns</a>	Grants permission to retrieve a list of workflow runs	List			
<a href="#">ListSequenceStores</a>	Grants permission to list Sequence Stores	List			
<a href="#">ListShares</a>	Grants permission to retrieve a list of information about shares	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of resource AWS tags	List			
<a href="#">ListVariantImportJobs</a>	Grants permission to get a list of Variant Import Jobs	List			
<a href="#">ListVariantStores</a>	Grants permission to retrieve a list of metadata for Variant Stores	List			
<a href="#">ListWorkflowVersions</a>	Grants permission to retrieve a list of available versions for a workflow	List	<a href="#">workflow*</a>		
<a href="#">ListWorkflows</a>	Grants permission to retrieve a list of available workflows	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutS3AccessPolicy</a>	Grants permission to put an access policy on a given store	Write	<a href="#">sequenceStore*</a>		
<a href="#">StartAnnotationImportJob</a>	Grants permission to import a list of Annotation files to an Annotation Store	Write	<a href="#">AnnotationStore*</a>		
			<a href="#">AnnotationStoreVersion*</a>		
<a href="#">StartReadSetActivationJob</a>	Grants permission to start a Read Set activation job from the given Sequence Store	Write	<a href="#">sequenceStore*</a>		
<a href="#">StartReadSetExportJob</a>	Grants permission to start a Read Set export job from the given Sequence Store	Write	<a href="#">sequenceStore*</a>		
<a href="#">StartReadSetImportJob</a>	Grants permission to start a Read Set import job into the given Sequence Store	Write	<a href="#">sequenceStore*</a>		
<a href="#">StartReferenceImportJob</a>	Grants permission to start a Reference import job into the given Reference Store	Write	<a href="#">referenceStore*</a>		
<a href="#">StartRun</a>	Grants permission to start a workflow run	Write	<a href="#">run*</a>		iam:PassRole
			<a href="#">configuration</a>		
			<a href="#">runCache</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">runGroup</a>		
			<a href="#">workflow</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartVariantImportJob</a>	Grants permission to import a list of variant files to an Variant Store	Write	<a href="#">VariantStore*</a>		
<a href="#">TagResource</a>	Grants permission to add AWS tags to a resource	Tagging	<a href="#">AnnotationStore</a>		
			<a href="#">AnnotationStoreVersion</a>		
			<a href="#">VariantStore</a>		
			<a href="#">WorkflowVersion</a>		
			<a href="#">configuration</a>		
			<a href="#">readSet</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">reference</a>		
			<a href="#">referenceStore</a>		
			<a href="#">run</a>		
			<a href="#">runCache</a>		
			<a href="#">runGroup</a>		
			<a href="#">sequenceStore</a>		
			<a href="#">workflow</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove resource AWS tags	Tagging	<a href="#">AnnotationStore</a>		
			<a href="#">AnnotationStoreVersion</a>		
			<a href="#">VariantStore</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">WorkflowVersion</a>		
			<a href="#">configuration</a>		
			<a href="#">readSet</a>		
			<a href="#">reference</a>		
			<a href="#">referenceStore</a>		
			<a href="#">run</a>		
			<a href="#">runCache</a>		
			<a href="#">runGroup</a>		
			<a href="#">sequenceStore</a>		
			<a href="#">workflow</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAnnotationStore</a>	Grants permission to update information about the Annotation Store	Write	<a href="#">AnnotationStore*</a>		
<a href="#">UpdateAnnotationStoreVersion</a>	Grants permission to update information about the Version in an Annotation Store	Write	<a href="#">AnnotationStoreVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRunCache</a>	Grants permission to update a workflow run cache	Write	<a href="#">runCache*</a>		
<a href="#">UpdateRunGroup</a>	Grants permission to update a workflow run group	Write	<a href="#">runGroup*</a>		
<a href="#">UpdateSequenceStore</a>	Grants permission to update details about a Sequence Store	Write	<a href="#">sequenceStore*</a>		
<a href="#">UpdateVariantStore</a>	Grants permission to update metadata about the Variant Store	Write	<a href="#">VariantStore*</a>		
<a href="#">UpdateWorkflow</a>	Grants permission to update workflow details	Write	<a href="#">workflow*</a>		
<a href="#">UpdateWorkflowVersion</a>	Grants permission to update workflow version details	Write	<a href="#">WorkflowVersion*</a>		
			<a href="#">workflow*</a>		
<a href="#">UploadReadSetPart</a>	Grants permission to upload read set parts	Write	<a href="#">sequenceStore*</a>		

## Resource types defined by AWS HealthOmics

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AnnotationStore</a>	arn:\${Partition}:omics:\${Region}:\${Account}:annotationStore/\${AnnotationStoreName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">AnnotationStoreVersion</a>	arn:\${Partition}:omics:\${Region}:\${Account}:annotationStore/\${AnnotationStoreName}/version/\${AnnotationStoreVersionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configuration</a>	arn:\${Partition}:omics:\${Region}:\${Account}:configuration/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">readSet</a>	arn:\${Partition}:omics:\${Region}:\${Account}:sequenceStore/\${SequenceStoreId}/readSet/\${ReadSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">reference</a>	arn:\${Partition}:omics:\${Region}:\${Account}:referenceStore/\${ReferenceStoreId}/reference/\${ReferenceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">referenceStore</a>	arn:\${Partition}:omics:\${Region}:\${Account}:referenceStore/\${ReferenceStoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">run</a>	arn:\${Partition}:omics:\${Region}:\${Account}:run/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">runCache</a>	arn:\${Partition}:omics:\${Region}:\${Account}:runCache/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">runGroup</a>	arn:\${Partition}:omics:\${Region}:\${Account}:runGroup/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">sequenceStore</a>	arn:\${Partition}:omics:\${Region}:\${Account}:sequenceStore/\${SequenceStoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TaskResource</a>	arn:\${Partition}:omics:\${Region}:\${Account}:task/\${Id}	
<a href="#">VariantStore</a>	arn:\${Partition}:omics:\${Region}:\${Account}:variantStore/\${VariantStoreName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workflow</a>	arn:\${Partition}:omics:\${Region}:\${Account}:workflow/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">WorkflowVersion</a>	arn:\${Partition}:omics:\${Region}:\${Account}:workflow/\${Id}/version/\${VersionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS HealthOmics

AWS HealthOmics defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Honeycode

Amazon Honeycode (service prefix: honeycode) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Honeycode](#)
- [Resource types defined by Amazon Honeycode](#)
- [Condition keys for Amazon Honeycode](#)

## Actions defined by Amazon Honeycode


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApproveTeamAssociation</a> [permission only]	Grants permission to approve a team association request for your AWS Account	Write			
<a href="#">BatchCreateTableRows</a>	Grants permission to create new rows in a table	Write	<a href="#">table*</a>		
<a href="#">BatchDeleteTableRows</a>	Grants permission to delete rows from a table	Write	<a href="#">table*</a>		
<a href="#">BatchUpdateTableRows</a>	Grants permission to update rows in a table	Write	<a href="#">table*</a>		
<a href="#">BatchUpsertTableRows</a>	Grants permission to upsert rows in a table	Write	<a href="#">table*</a>		
<a href="#">CreateTeam</a> [permission only]	Grants permission to create a new Amazon Honeycode team for your AWS Account	Write			
<a href="#">CreateTenant</a> [permission only]	Grants permission to create a new tenant within Amazon Honeycode for your AWS Account	Write			
<a href="#">DeleteDomains</a> [permission only]	Grants permission to delete Amazon Honeycode domains for your AWS Account	Write			
<a href="#">DeregisterGroups</a>	Grants permission to remove groups from an Amazon	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]	Honeycode team for your AWS Account				
<a href="#">DescribeTableDataImportJob</a>	Grants permission to get details about a table data import job	Read	<a href="#">table*</a>		
<a href="#">DescribeTeam</a> [permission only]	Grants permission to get details about Amazon Honeycode teams for your AWS Account	Read			
<a href="#">GetScreenData</a>	Grants permission to load the data from a screen	Read	<a href="#">screen*</a>		
<a href="#">InvokeScreenAutomation</a>	Grants permission to invoke a screen automation	Write	<a href="#">screen-automation*</a>		
<a href="#">ListDomains</a> [permission only]	Grants permission to list all Amazon Honeycode domains and their verification status for your AWS Account	List			
<a href="#">ListGroup</a> [permission only]	Grants permission to list all groups in an Amazon Honeycode team for your AWS Account	List			
<a href="#">ListTableColumns</a>	Grants permission to list the columns in a table	List	<a href="#">table*</a>		
<a href="#">ListTableRows</a>	Grants permission to list the rows in a table	List	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTables</a>	Grants permission to list the tables in a workbook	List	<a href="#">workbook*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for a resource	Tagging			
<a href="#">ListTeamAssociations</a> [permission only]	Grants permission to list all pending and approved team associations with your AWS Account	List			
<a href="#">ListTenants</a> [permission only]	Grants permission to list all tenants of Amazon Honeycode for your AWS Account	List			
<a href="#">QueryTableRows</a>	Grants permission to query the rows of a table using a filter	Read	<a href="#">table*</a>		
<a href="#">RegisterDomainForVerification</a> [permission only]	Grants permission to request verification of the Amazon Honeycode domains for your AWS Account	Write			
<a href="#">RegisterGroups</a> [permission only]	Grants permission to add groups to an Amazon Honeycode team for your AWS Account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectTeamAssociation</a> [permission only]	Grants permission to reject a team association request for your AWS Account	Write			
<a href="#">RestartDomainVerification</a> [permission only]	Grants permission to restart verification of the Amazon Honeycode domains for your AWS Account	Write			
<a href="#">StartTableDataImportJob</a>	Grants permission to start a table data import job	Write	<a href="#">table*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging			
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging			
<a href="#">UpdateTeam</a> [permission only]	Grants permission to update an Amazon Honeycode team for your AWS Account	Write			

## Resource types defined by Amazon Honeycode

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">workbook</a>	arn:\${Partition}:honeycode:\${Region}:\${Account}:workbook:workbook/\${WorkbookId}	
<a href="#">table</a>	arn:\${Partition}:honeycode:\${Region}:\${Account}:table:workbook/\${WorkbookId}/table/\${TableId}	
<a href="#">screen</a>	arn:\${Partition}:honeycode:\${Region}:\${Account}:screen:workbook/\${WorkbookId}/app/\${AppId}/screen/\${ScreenId}	
<a href="#">screen-automation</a>	arn:\${Partition}:honeycode:\${Region}:\${Account}:screen-automation:workbook/\${WorkbookId}/app/\${AppId}/screen/\${ScreenId}/automation/\${AutomationId}	

## Condition keys for Amazon Honeycode

Honeycode has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS IAM Access Analyzer

AWS IAM Access Analyzer (service prefix: `access-analyzer`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).



- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS IAM Access Analyzer](#)
- [Resource types defined by AWS IAM Access Analyzer](#)
- [Condition keys for AWS IAM Access Analyzer](#)

## Actions defined by AWS IAM Access Analyzer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApplyArchiveRule</a>	Grants permission to apply an archive rule	Write	<a href="#">Analyzer*</a>		
<a href="#">CancelPolicyGeneration</a>	Grants permission to cancel a policy generation	Write			
<a href="#">CheckAccessNotGranted</a>	Grants permission to check that specified access is not allowed by a policy	Read			
<a href="#">CheckNoNewAccess</a>	Grants permission to check that no new access is allowed when compared to an existing policy	Read			
<a href="#">CheckNoPublicAccess</a>	Grants permission to check that public access is not allowed by a resource policy	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccessPreview</a>	Grants permission to create an access preview for the specified analyzer	Write	<a href="#">Analyzer*</a>		
<a href="#">CreateAnalyzer</a>	Grants permission to create an analyzer	Write	<a href="#">Analyzer*</a>		iam:CreateServiceLinkedRole
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateArchiveRule</a>	Grants permission to create an archive rule for the specified analyzer	Write	<a href="#">ArchiveRule*</a>		
<a href="#">DeleteAnalyzer</a>	Grants permission to delete the specified analyzer	Write	<a href="#">Analyzer*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteArchiveRule</a>	Grants permission to delete archive rules for the specified analyzer	Write	<a href="#">ArchiveRule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateFindingRecommendation</a>	Grants permission to generate recommendation steps to resolve a finding	Write	<a href="#">Analyzer*</a>		
<a href="#">GetAccessPreview</a>	Grants permission to retrieve information about an access preview	Read	<a href="#">Analyzer*</a>		
<a href="#">GetAnalyzedResource</a>	Grants permission to retrieve information about an analyzed resource	Read	<a href="#">Analyzer*</a>		
<a href="#">GetAnalyzer</a>	Grants permission to retrieve information about analyzers	Read	<a href="#">Analyzer*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetArchiveRule</a>	Grants permission to retrieve information about archive rules for the specified analyzer	Read	<a href="#">ArchiveRule*</a>		
<a href="#">GetFinding</a>	Grants permission to retrieve findings	Read	<a href="#">Analyzer*</a>		
<a href="#">GetFindingRecommendation</a>	Grants permission to retrieve recommendation steps to resolve a finding	Read	<a href="#">Analyzer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFindingsStatistics</a>	Grants permission to retrieve statistics for findings	Read	<a href="#">Analyzer*</a>		
<a href="#">GetGeneratedPolicy</a>	Grants permission to retrieve a policy that was generated using StartPolicyGeneration	Read			
<a href="#">ListAccessPreviewFindings</a>	Grants permission to retrieve a list of findings from an access preview	Read	<a href="#">Analyzer*</a>		
<a href="#">ListAccessPreviews</a>	Grants permission to retrieve a list of access previews	List	<a href="#">Analyzer*</a>		
<a href="#">ListAnalyzedResources</a>	Grants permission to retrieve a list of resources that have been analyzed	Read	<a href="#">Analyzer*</a>		
<a href="#">ListAnalyzers</a>	Grants permission to retrieves a list of analyzers	List			
<a href="#">ListArchiveRules</a>	Grants permission to retrieve a list of archive rules from an analyzer	List	<a href="#">Analyzer*</a>		
<a href="#">ListFindings</a>	Grants permission to retrieve a list of findings from an analyzer	Read	<a href="#">Analyzer*</a>		
<a href="#">ListPolicyGenerations</a>	Grants permission to list all the recently started policy generations	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of tags applied to a resource	Read	<a href="#">Analyzer</a>		
<a href="#">StartPolicyGeneration</a>	Grants permission to start a policy generation	Write			iam:PassRole
<a href="#">StartResourceScan</a>	Grants permission to start a scan of the policies applied to a resource	Write	<a href="#">Analyzer*</a>		
<a href="#">TagResource</a>	Grants permission to add a tag to a resource	Tagging	<a href="#">Analyzer</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">Analyzer</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAnalyzer</a>	Grants permission to modify an analyzer's configuration	Write	<a href="#">Analyzer*</a>		
<a href="#">UpdateArchiveRule</a>	Grants permission to modify an archive rule	Write	<a href="#">ArchiveRule*</a>		
<a href="#">UpdateFindings</a>	Grants permission to modify findings	Write	<a href="#">Analyzer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidatePolicy</a>	Grants permission to validate a policy	Read			

## Resource types defined by AWS IAM Access Analyzer

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Analyzer</a>	arn:\${Partition}:access-analyzer:\${Region}:\${Account}:analyzer/\${AnalyzerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ArchiveRule</a>	arn:\${Partition}:access-analyzer:\${Region}:\${Account}:analyzer/\${AnalyzerName}/archive-rule/\${RuleName}	

## Condition keys for AWS IAM Access Analyzer

AWS IAM Access Analyzer defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS IAM Identity Center

AWS IAM Identity Center (service prefix: sso) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IAM Identity Center](#)
- [Resource types defined by AWS IAM Identity Center](#)
- [Condition keys for AWS IAM Identity Center](#)

## Actions defined by AWS IAM Identity Center

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddRegion</a>	Grants permission to add a region to an IAM Identity Center instance	Write	<a href="#">Instance*</a>		identitystore:AddRegion  kms:Decrypt
<a href="#">AssociateDirectory</a>	Grants permission to connect a directory to be used by AWS IAM Identity Center	Write			ds:AuthorizeApplication  identitystore:CreateIdentityStore  kms:Decrypt
<a href="#">AssociateProfile</a>	Grants permission to create an association between a directory user or group and a profile	Write			kms:Decrypt
<a href="#">AttachCustomerManagedPolicyReferenceToPermissionSet</a>	Grants permission to attach a customer managed policy reference to a permission set	Permissions management	<a href="#">Instance*</a>  <a href="#">PermissionSet*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachManagedPolicyToPermissionSet</a>	Grants permission to attach an AWS managed policy to a permission set	Permissions management	<a href="#">Instance*</a> <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">CreateAccountAssignment</a>	Grants permission to assign access to a Principal for a specified AWS account using a specified permission set	Write	<a href="#">Account*</a> <a href="#">Instance*</a> <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">CreateApplication</a>	Grants permission to create an application	Write	<a href="#">Application*</a> <a href="#">ApplicationProvider*</a> <a href="#">Instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	kms:Decrypt
<a href="#">CreateApplicationAssignment</a>	Grants permission to create an application assignment	Write	<a href="#">Application*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">CreateApplicationInstance</a>	Grants permission to add an application instance to AWS IAM Identity Center	Write			kms:Decrypt
<a href="#">CreateApplicationInstanceCertificate</a>	Grants permission to add a new certificate for an application instance	Write			kms:Decrypt
<a href="#">CreateInstance</a>	Grants permission to create an identity center instance	Write	<a href="#">Instance*</a>		iam:CreateServiceLinkedRole  identitystore:CreateIdentityStore  organizations:DescribeOrganization

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInstanceAccessControlAttributeConfiguration</a>	Grants permission to enable the instance for ABAC and specify the attributes	Write	<a href="#">Instance*</a>		iam:AttachRolePolicy  iam:CreateRole  iam>DeleteRole  iam>DeleteRolePolicy  iam:DetachRolePolicy  iam:GetRole  iam:ListAttachedRolePolicies  iam:ListRolePolicies  iam:PutRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:UpdateAssumeRolePolicy  kms:Decrypt
<a href="#">CreateManagedApplicationInstance</a>	Grants permission to add a managed application instance to AWS IAM Identity Center	Write			kms:Decrypt
<a href="#">CreatePermissionSet</a>	Grants permission to create a permission set	Write	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateProfile</a>	Grants permission to create a profile for an application instance	Write			kms:Decrypt
<a href="#">CreateTrust</a>	Grants permission to create a federation trust in a target account	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrustedTokenIssuer</a>	Grants permission to create a trusted token issuer for an instance	Write	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">TrustedTokenIssuer*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccountAssignment</a>	Grants permission to delete a Principal's access from a specified AWS account using a specified permission set	Write	<a href="#">Account*</a>		kms:Decrypt
			<a href="#">Instance*</a>		
			<a href="#">PermissionSet*</a>		
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">DeleteApplicationAccessScope</a>	Grants permission to delete an access scope to an application	Write	<a href="#">Application*</a>		kms:Decrypt



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">DeleteApplicationAssignment</a>	Grants permission to delete an application assignment	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">DeleteApplicationAuthenticationMethod</a>	Grants permission to delete an authentication method to an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">DeleteApplicationGrant</a>	Grants permission to delete a grant from an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">DeleteApplicationInstance</a>	Grants permission to delete the application instance	Write			kms:Decrypt
<a href="#">DeleteApplicationInstanceCertificate</a>	Grants permission to delete an inactive or expired certificate from the application instance	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInlinePolicyFromPermissionSet</a>	Grants permission to delete the inline policy from a specified permission set	Write	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
<a href="#">DeleteInstance</a>	Grants permission to delete an identity center instance	Write	<a href="#">Instance*</a>		identitystore:DeleteIdentityStore
<a href="#">DeleteInstanceAccessControlAttributeConfiguration</a>	Grants permission to disable ABAC and remove the attributes list for the instance	Write	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">DeleteManagedApplicationInstance</a>	Grants permission to delete the managed application instance	Write			kms:Decrypt
<a href="#">DeletePermissionSet</a>	Grants permission to delete a permission set	Write	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePermissionsBoundaryFromPermissionSet</a>	Grants permission to remove permissions boundary from a permission set	Permissions management	<a href="#">Instance*</a> <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">DeleteProfile</a>	Grants permission to delete the profile for an application instance	Write			kms:Decrypt
<a href="#">DeleteTrustedTokenIssuer</a>	Grants permission to delete a trusted token issuer for an instance	Write	<a href="#">TrustedTokenIssuer*</a>		kms:Decrypt
<a href="#">DescribeAccountAssignmentCreationStatus</a>	Grants permission to describe the status of the assignment creation request	Read	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">DescribeAccountAssignmentDeletionStatus</a>	Grants permission to describe the status of an assignment deletion request	Read	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">DescribeApplication</a>	Grants permission to obtain information about an application	Read	<a href="#">Application*</a>	<a href="#">sso:ApplicationAccount</a>	kms:Decrypt
<a href="#">DescribeApplicationAssignment</a>	Grants permission to retrieve an application assignment	Read	<a href="#">Application*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">DescribeApplicationProvider</a>	Grants permission to describe an application provider	Read	<a href="#">ApplicationProvider*</a>		
<a href="#">DescribeInstance</a>	Grants permission to obtain information about an identity center instance	Read	<a href="#">Instance*</a>		
<a href="#">DescribeInstanceAccessControlAttributeConfiguration</a>	Grants permission to get the list of attributes used by the instance for ABAC	Read	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">DescribePermissionSet</a>	Grants permission to describe a permission set	Read	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
<a href="#">DescribePermissionSetProvisioningStatus</a>	Grants permission to describe the status for the given Permission Set Provisioning request	Read	<a href="#">Instance*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRegion</a>	Grants permission to retrieve configuration details for a specific IAM Identity Center instance region	Read	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">DescribeRegisteredRegions</a>	Grants permission to obtain the regions where your organization has enabled AWS IAM Identity Center	Read			
<a href="#">DescribeTrustedTokenIssuer</a>	Grants permission to describe a trusted token issuer for an instance	Read	<a href="#">TrustedTokenIssuer*</a>		kms:Decrypt
<a href="#">DetachCustomerManagedPolicyReferenceFromPermissionSet</a>	Grants permission to detach a customer managed policy reference from a permission set	Permissions management	<a href="#">Instance*</a> <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">DetachManagedPolicyFromPermissionSet</a>	Grants permission to detach the attached AWS managed policy from the specified permission set	Permissions management	<a href="#">Instance*</a> <a href="#">PermissionSet*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateDirectory</a>	Grants permission to disassociate a directory to be used by AWS IAM Identity Center	Write			ds:UnauthorizeApplication  identitystore:DeleteIdentityStore  kms:Decrypt
<a href="#">DisassociateProfile</a>	Grants permission to disassociate a directory user or group from a profile	Write			kms:Decrypt
<a href="#">GetApplicationAccessScope</a>	Grants permission to get an access scope to an application	Read	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">GetApplicationAssignmentConfiguration</a>	Grants permission to read assignment configurations for an application	Read	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">GetApplicationAuthenticationMethod</a>	Grants permission to get an authentication method to an application	Read	<a href="#">Application*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">GetApplicationGrant</a>	Grants permission to obtain details about a grant belonging to an application	Read	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">GetApplicationInstance</a>	Grants permission to retrieve details for an application instance	Read			kms:Decrypt
<a href="#">GetApplicationSessionConfiguration</a>	Grants permission to get session configuration for an application	Read	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">GetApplicationTemplate</a>	Grants permission to retrieve application template details	Read			
<a href="#">GetInlinePolicyForPermissionSet</a>	Grants permission to obtain the inline policy assigned to the permission set	Read	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetManagedApplicationInstance</a>	Grants permission to retrieve details for an application instance	Read			kms:Decrypt
<a href="#">GetMfaDeviceManagementForDirectory</a>	Grants permission to retrieve Mfa Device Management settings for the directory	Read			kms:Decrypt
<a href="#">GetPermissionSet</a>	Grants permission to retrieve details of a permission set	Read			kms:Decrypt
<a href="#">GetPermissionsBoundaryForPermissionSet</a>	Grants permission to get permissions boundary for a permission set	Read	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
<a href="#">GetProfile</a>	Grants permission to retrieve a profile for an application instance	Read			kms:Decrypt
<a href="#">GetSSOStatus</a>	Grants permission to check if AWS IAM Identity Center is enabled	Read			
<a href="#">GetSharedSsoConfiguration</a>	Grants permission to retrieve shared configuration for the current SSO instance	Read			kms:Decrypt
<a href="#">GetSsoConfiguration</a>	Grants permission to retrieve configuration for the current SSO instance	Read			kms:Decrypt



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTrust</a>	Grants permission to retrieve the federation trust in a target account	Read			kms:Decrypt
<a href="#">ImportApplicationInstanceServiceProviderMetadata</a>	Grants permission to update the application instance by uploading an application SAML metadata file provided by the service provider	Write			kms:Decrypt
<a href="#">ListAccountAssignmentCreationStatus</a>	Grants permission to list the status of the AWS account assignment creation requests for a specified SSO instance	List	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">ListAccountAssignmentDeletionStatus</a>	Grants permission to list the status of the AWS account assignment deletion requests for a specified SSO instance	List	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">ListAccountAssignments</a>	Grants permission to list the assignee of the specified AWS account with the specified permission set	List	<a href="#">Account*</a>		kms:Decrypt
			<a href="#">Instance*</a>		
			<a href="#">PermissionSet*</a>		
<a href="#">ListAccountAssignmentsForPrincipal</a>	Grants permission to list accounts assigned to user or group	List	<a href="#">Instance*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccountsForProvisionedPermissionSet</a>	Grants permission to list all the AWS accounts where the specified permission set is provisioned	List	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
<a href="#">ListApplicationAccessScopes</a>	Grants permission to list access scopes to an application	List	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">ListApplicationAssignments</a>	Grants permission to list application assignments	List	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">ListApplicationAssignmentsForPrincipal</a>	Grants permission to list applications assigned to user or group	List	<a href="#">Instance*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">ListApplicationAuthenticationMethods</a>	Grants permission to list authentication methods to an application	List	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplicationGrants</a>	Grants permission to list grants from an application	List	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">ListApplicationInstanceCertificates</a>	Grants permission to retrieve all of the certificates for a given application instance	Read			kms:Decrypt
<a href="#">ListApplicationInstances</a>	Grants permission to retrieve all application instances	List			kms:Decrypt sso:GetApplicationInstance
<a href="#">ListApplicationProviders</a>	Grants permission to list application providers	List	<a href="#">ApplicationProvider*</a>		
<a href="#">ListApplicationTemplates</a>	Grants permission to retrieve all supported application templates	List			sso:GetApplicationTemplate
<a href="#">ListApplications</a>	Grants permission to retrieve all applications associated with the instance of IAM Identity Center	List			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCustomerManagedPolicyReferencesInPermissionSet</a>	Grants permission to list the customer managed policy references that are attached to a permission set	List	<a href="#">Instance*</a>  <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">ListDirectoryAssociations</a>	Grants permission to retrieve details about the directory connected to AWS IAM Identity Center	Read			kms:Decrypt
<a href="#">ListInstances</a>	Grants permission to list the SSO Instances that the caller has access to	List			
<a href="#">ListManagedPoliciesInPermissionSet</a>	Grants permission to list the AWS managed policies that are attached to a specified permission set	List	<a href="#">Instance*</a>  <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">ListPermissionSetProvisioningStatus</a>	Grants permission to list the status of the Permission Set Provisioning requests for a specified SSO instance	List	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">ListPermissionSets</a>	Grants permission to retrieve all permission sets	List	<a href="#">Instance*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPermissionSetsProvisionedToAccount</a>	Grants permission to list all the permission sets that are provisioned to a specified AWS account	List	<a href="#">Account*</a>		kms:Decrypt
			<a href="#">Instance*</a>		
<a href="#">ListProfileAssociations</a>	Grants permission to retrieve the directory user or group associated with the profile	Read			kms:Decrypt
<a href="#">ListProfiles</a>	Grants permission to retrieve all profiles for an application instance	List			kms:Decrypt sso:GetProfile
<a href="#">ListRegions</a>	Grants permission to list all regions configured for an IAM Identity Center instance	List	<a href="#">Instance*</a>		kms:Decrypt
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that are attached to a specified resource	Read	<a href="#">Application</a>		kms:Decrypt
			<a href="#">Instance</a>		
			<a href="#">PermissionSet</a>		
			<a href="#">TrustedTokenIssuer</a>		
<a href="#">ListTrustedTokenIssuers</a>	Grants permission to list trusted token issuers for an instance	List	<a href="#">Instance*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ProvisionPermissionSet</a>	Grants permission to provision a specified permission set to the specified target	Write	<a href="#">Account*</a>		kms:Decrypt
			<a href="#">Instance*</a>		
			<a href="#">PermissionSet*</a>		
<a href="#">PutApplicationAccessScope</a>	Grants permission to create/update an access scope to an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">PutApplicationAssignmentConfiguration</a>	Grants permission to add assignment configurations to an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">PutApplicationAuthenticationMethod</a>	Grants permission to create/update an authentication method to an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">PutApplicationGrant</a>	Grants permission to create/update a grant to an application	Write	<a href="#">Application*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">PutApplicationSessionConfiguration</a>	Grants permission to put session configuration for an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">PutInlinePolicyToPermissionSet</a>	Grants permission to attach an IAM inline policy to a permission set	Write	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
<a href="#">PutMfaDeviceManagementForDirectory</a>	Grants permission to put Mfa Device Management settings for the directory	Write			kms:Decrypt
<a href="#">PutPermissionsBoundaryToPermissionSet</a>	Grants permission to add permissions boundary to a permission set	Permissions management	<a href="#">Instance*</a>		kms:Decrypt
			<a href="#">PermissionSet*</a>		
<a href="#">PutPermissionsPolicy</a>	Grants permission to add a policy to a permission set	Permissions management			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveRegion</a>	Grants permission to remove a region from an IAM Identity Center instance	Write	<a href="#">Instance*</a>		identitystore:RemoveRegion  kms:Decrypt
<a href="#">SearchGroups</a>	Grants permission to search for groups within the associated directory	Read			ds:DescribeDirectories  kms:Decrypt
<a href="#">SearchUsers</a>	Grants permission to search for users within the associated directory	Read			ds:DescribeDirectories  kms:Decrypt



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartSSO</a>	Grants permission to initialize AWS IAM Identity Center	Write			kms:Decrypt kms:DescribeKey kms:Encrypt kms:GenerateDataKeyWithoutPlaintext organizations:DescribeOrganization organizations:EnableAWSServiceAccess
<a href="#">TagResource</a>	Grants permission to associate a set of tags with a specified resource	Tagging	<a href="#">Application</a> <a href="#">Instance</a> <a href="#">PermissionSet</a> <a href="#">TrustedToOpenIssuer</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to disassociate a set of tags from a specified resource	Tagging	<a href="#">Application</a>		kms:Decrypt
			<a href="#">Instance</a>		
			<a href="#">PermissionSet</a>		
			<a href="#">TrustedToOpenIssuer</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write	<a href="#">Application*</a>		kms:Decrypt
				<a href="#">sso:ApplicationAccount</a>	
<a href="#">UpdateApplicationInstanceActiveCertificate</a>	Grants permission to set a certificate as the active one for this application instance	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApplicationInstanceDisplayData</a>	Grants permission to update display data of an application instance	Write			kms:Decrypt
<a href="#">UpdateApplicationInstanceResponseConfiguration</a>	Grants permission to update federation response configuration for the application instance	Write			kms:Decrypt
<a href="#">UpdateApplicationInstanceResponseSchemaConfiguration</a>	Grants permission to update federation response schema configuration for the application instance	Write			kms:Decrypt
<a href="#">UpdateApplicationInstanceSecurityConfiguration</a>	Grants permission to update security details for the application instance	Write			kms:Decrypt
<a href="#">UpdateApplicationInstanceServiceProviderConfiguration</a>	Grants permission to update service provider related configuration for the application instance	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApplicationInstanceStatus</a>	Grants permission to update the status of an application instance	Write			kms:Decrypt
<a href="#">UpdateInstance</a>	Grants permission to update an identity center instance	Write	<a href="#">Instance*</a>		identitystore:UpdateIdentityStore kms:Decrypt kms:DescribeKey kms:Encrypt kms:GenerateDataKeyWithoutPlaintext
<a href="#">UpdateInstanceAccessControlAttributeConfiguration</a>	Grants permission to update the attributes to use with the instance for ABAC	Write	<a href="#">Instance*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateManagedApplicationInstanceStatus</a>	Grants permission to update the status of a managed application instance	Write			kms:Decrypt
<a href="#">UpdatePermissionSet</a>	Grants permission to update the permission set	Permissions management	<a href="#">Instance*</a> <a href="#">PermissionSet*</a>		kms:Decrypt
<a href="#">UpdateProfile</a>	Grants permission to update the profile for an application instance	Write			kms:Decrypt
<a href="#">UpdateSSOConfiguration</a>	Grants permission to update the configuration for the current SSO instance	Write			kms:Decrypt
<a href="#">UpdateTrust</a>	Grants permission to update the federation trust in a target account	Write			kms:Decrypt
<a href="#">UpdateTrustedTokenIssuer</a>	Grants permission to update a trusted token issuer for an instance	Write	<a href="#">TrustedTokenIssuer*</a>		kms:Decrypt

## Resource types defined by AWS IAM Identity Center

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">PermissionSet</a>	arn:\${Partition}:sso:::permissionSet/\${InstanceId}/\${PermissionSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Account</a>	arn:\${Partition}:sso:::account/\${AccountId}	
<a href="#">Instance</a>	arn:\${Partition}:sso:::instance/\${InstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Application</a>	arn:\${Partition}:sso:::\${AccountId}:application/\${InstanceId}/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sso:ApplicationAccount</a>
<a href="#">TrustedTokenIssuer</a>	arn:\${Partition}:sso:::\${AccountId}:trustedTokenIssuer/\${InstanceId}/\${TrustedTokenIssuerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ApplicationProvider</a>	arn:\${Partition}:sso:::aws:applicationProvider/\${ApplicationProviderId}	

## Condition keys for AWS IAM Identity Center

AWS IAM Identity Center defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">identitycenter:ApplicationArn</a>	Filters access by the ARN of the IAM Identity Center application	ARN
<a href="#">identitycenter:InstanceArn</a>	Filters access by the ARN of the IAM Identity Center instance	ARN
<a href="#">sso:ApplicationAccount</a>	Filters access by the account which creates the application. This condition key is not supported for customer managed SAML applications	String

## Actions, resources, and condition keys for AWS IAM Identity Center directory

AWS IAM Identity Center directory (service prefix: `sso-directory`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IAM Identity Center directory](#)
- [Resource types defined by AWS IAM Identity Center directory](#)
- [Condition keys for AWS IAM Identity Center directory](#)

## Actions defined by AWS IAM Identity Center directory

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddMemberToGroup</a>	Grants permission to add a member to a group in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">CompleteVirtualMfaDeviceRegistration</a>	Grants permission to complete the creation process of a virtual MFA device	Write			
<a href="#">CompleteWebAuthnDeviceRegistration</a>	Grants permission to complete the registration process of a WebAuthn device	Write			
<a href="#">CreateAlias</a>	Grants permission to create an alias for the directory that AWS IAM Identity Center provides by default	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBearerToken</a>	Grants permission to create a bearer token for a given provisioning tenant	Write			kms:Decrypt
<a href="#">CreateExternalIdPConfigurationForDirectory</a>	Grants permission to create an External Identity Provider configuration for the directory	Write			
<a href="#">CreateGroup</a>	Grants permission to create a group in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">CreateProvisioningTenant</a>	Grants permission to create a provisioning tenant for a given directory	Write			kms:Decrypt
<a href="#">CreateUser</a>	Grants permission to create a user in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">DeleteBearerToken</a>	Grants permission to delete a bearer token	Write			kms:Decrypt
<a href="#">DeleteExternalIdPCertificate</a>	Grants permission to delete the given external IdP certificate	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteExternalIdPConfigurationForDirectory</a>	Grants permission to delete an External Identity Provider configuration associated with the directory	Write			
<a href="#">DeleteGroup</a>	Grants permission to delete a group from the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">DeleteMfaDeviceForUser</a>	Grants permission to delete a MFA device by device name for a given user	Write			
<a href="#">DeleteProvisioningTenant</a>	Grants permission to delete the provisioning tenant	Write			kms:Decrypt
<a href="#">DeleteUser</a>	Grants permission to delete a user from the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">DescribeDirectory</a>	Grants permission to retrieve information about the directory that AWS IAM Identity Center provides by default	Read			
<a href="#">DescribeGroup</a>	Grants permission to query the group data, not including user and group members	Read			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeGroups</a>	Grants permission to retrieve information about groups from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">DescribeProvisioningTenant</a>	Grants permission to describes the provisioning tenant	Read			kms:Decrypt
<a href="#">DescribeUser</a>	Grants permission to retrieve information about a user from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">DescribeUserByUniqueAttribute</a>	Grants permission to describe user with a valid unique attribute represented for the user	Read			kms:Decrypt
<a href="#">DescribeUsers</a>	Grants permission to retrieve information about user from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">DisableExternalIdPConfigurationForDirectory</a>	Grants permission to disable authentication of end users with an External Identity Provider	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableUser</a>	Grants permission to deactivate a user in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">EnableExternalIdPConfigurationForDirectory</a>	Grants permission to enable authentication of end users with an External Identity Provider	Write			
<a href="#">EnableUser</a>	Grants permission to activate user in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">GetAWSSPConfigurationForDirectory</a>	Grants permission to retrieve the AWS IAM Identity Center Service Provider configurations for the directory	Read			
<a href="#">GetGroupId</a>	Grants permission to retrieve ID information about group from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">GetUserId</a>	Grants permission to retrieve ID information about user from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUserPoolInfo</a>	(Deprecated) Grants permission to get UserPool Info	Read			
<a href="#">ImportExternalIdPCertificate</a>	Grants permission to import the IdP certificate used for verifying external IdP responses	Write			
<a href="#">IsMemberInGroup</a>	Grants permission to check if a member is a part of the group in the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">IsMemberInGroups</a>	Grants permission to check if a member is a part of multiple groups in the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">ListBearerTokens</a>	Grants permission to list bearer tokens for a given provisioning tenant	Read			kms:Decrypt
<a href="#">ListExternalIdPCertificates</a>	Grants permission to list the external IdP certificates of a given directory and IdP	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListExternalIdPConfigurationsForDirectory</a>	Grants permission to list all the External Identity Provider configurations created for the directory	Read			
<a href="#">ListGroup</a>	Grants permission to list groups from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">ListGroupForMembers</a>	Grants permission to list groups of the target member	Read			kms:Decrypt
<a href="#">ListGroupForUser</a>	Grants permission to list groups for a user from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">ListMembersInGroup</a>	Grants permission to retrieve all members that are part of a group in the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">ListMfaDevicesForUser</a>	Grants permission to list all active MFA devices and their MFA device metadata for a user	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProvisioningTenants</a>	Grants permission to list provisioning tenants for a given directory	Read			kms:Decrypt
<a href="#">ListUsers</a>	Grants permission to list users from the directory that AWS IAM Identity Center provides by default	Read			kms:Decrypt
<a href="#">RemoveMemberFromGroup</a>	Grants permission to remove a member that is part of a group in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">SearchGroups</a>	Grants permission to search for groups within the associated directory	Read			kms:Decrypt
<a href="#">SearchUsers</a>	Grants permission to search for users within the associated directory	Read			kms:Decrypt
<a href="#">StartVirtualMfaDeviceRegistration</a>	Grants permission to begin the creation process of virtual mfa device	Write			
<a href="#">StartWebAuthnDeviceRegistration</a>	Grants permission to begin the registration process of a WebAuthn device	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateExternalIdPConfigurationForDirectory</a>	Grants permission to update an External Identity Provider configuration associated with the directory	Write			
<a href="#">UpdateGroup</a>	Grants permission to update information about a group in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">UpdateGroupDisplayName</a>	Grants permission to update group display name update group display name response	Write			kms:Decrypt
<a href="#">UpdateMfaDeviceForUser</a>	Grants permission to update MFA device information	Write			
<a href="#">UpdatePassword</a>	Grants permission to update a password by sending password reset link via email or generating one time password for a user in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateUser</a>	Grants permission to update user information in the directory that AWS IAM Identity Center provides by default	Write			kms:Decrypt
<a href="#">UpdateUserName</a>	Grants permission to update user name update user name response	Write			kms:Decrypt
<a href="#">VerifyEmail</a>	Grants permission to verify an email address of an User	Write			

## Resource types defined by AWS IAM Identity Center directory

AWS IAM Identity Center directory does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS IAM Identity Center directory, specify "Resource": "\*" in your policy.

## Condition keys for AWS IAM Identity Center directory

IAM Identity Center directory has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS IAM Identity Center OIDC service

AWS IAM Identity Center OIDC service (service prefix: sso-oauth) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS IAM Identity Center OIDC service](#)
- [Resource types defined by AWS IAM Identity Center OIDC service](#)
- [Condition keys for AWS IAM Identity Center OIDC service](#)

## Actions defined by AWS IAM Identity Center OIDC service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTokenWithIAM</a>	Grants permission to create and return OAuth 2.0 access tokens and refresh tokens for authorized client applications. These tokens might contain defined scopes that specify permissions such as `read:profile` or `write:data`	Write	<a href="#">Application*</a>		kms:Decrypt
<a href="#">IntrospectTokenWithIAM</a> [permission only]	Grants permission to validate and retrieve information about active OAuth 2.0 access tokens and refresh tokens, including their associated scopes and permissions. This permission is used only by AWS managed applications	Write	<a href="#">Application*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	and is not documented in the IAM Identity Center OIDC API Reference				
<a href="#">RevokeTokenWithIAM</a> [permission only]	Grants permission to revoke OAuth 2.0 access tokens and refresh tokens, invalidating them before their normal expiration. This permission is used only by AWS managed applications and is not documented in the IAM Identity Center OIDC API Reference	Write	<a href="#">Application*</a>		kms:Decrypt

## Resource types defined by AWS IAM Identity Center OIDC service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Application</a>	arn:\${Partition}:sso::\${AccountId}:application/\${InstanceId}/\${ApplicationId}	

## Condition keys for AWS IAM Identity Center OIDC service

OIDC service has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Identity and Access Management (IAM)

AWS Identity and Access Management (IAM) (service prefix: `iam`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Identity and Access Management \(IAM\)](#)
- [Resource types defined by AWS Identity and Access Management \(IAM\)](#)
- [Condition keys for AWS Identity and Access Management \(IAM\)](#)

## Actions defined by AWS Identity and Access Management (IAM)

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptDelegationRequest</a>	Accepts a delegation request resource, granting the requested temporary access	Write	<a href="#">delegation-request*</a>		
<a href="#">AddClientIDToOpenIDConnectProvider</a>	Grants permission to add a new client ID (audience) to the list of registered IDs for the specified IAM OpenID Connect (OIDC) provider resource	Write	<a href="#">oidc-provider*</a>		
<a href="#">AddRoleToInstanceProfile</a>	Grants permission to add an IAM role to the specified instance profile	Write	<a href="#">instance-profile*</a>		iam:PassRole
<a href="#">AddUserToGroup</a>	Grants permission to add an IAM user to the specified IAM group	Write	<a href="#">group*</a>		
<a href="#">AssociateDelegationRequest</a>	Associates a delegation request resource with the calling identity	Write	<a href="#">delegation-request*</a>		
<a href="#">AttachGroupPolicy</a>	Grants permission to attach a managed policy to the specified IAM group	Permissions management	<a href="#">group*</a>	<a href="#">iam:PolicyARN</a>	
<a href="#">AttachRolePolicy</a>	Grants permission to attach a managed policy to the specified IAM role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PolicyARN</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">iam:PermissionsBoundary</a>	
<a href="#">AttachUserPolicy</a>	Grants permission to attach a managed policy to the specified IAM user	Permissions management	<a href="#">user*</a>	<a href="#">iam:PolicyARN</a> <a href="#">iam:PermissionsBoundary</a>	
<a href="#">ChangePassword</a>	Grants permission to an IAM user to change their own password	Write	<a href="#">user*</a>		
<a href="#">CreateAccessKey</a>	Grants permission to create access key and secret access key for the specified IAM user	Write	<a href="#">user*</a>		
<a href="#">CreateAccountAlias</a>	Grants permission to create an alias for your AWS account	Write			
<a href="#">CreateDelegationRequest</a>	Creates an IAM delegation request resource for temporary access delegation	Write	<a href="#">delegation-request*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGroup</a>	Grants permission to create a new group	Write	<a href="#">group*</a>	<a href="#">iam:DelegationDuration</a> <a href="#">iam:NotificationChannel</a> <a href="#">iam:TemplateArn</a>	
<a href="#">CreateInstanceProfile</a>	Grants permission to create a new instance profile	Write	<a href="#">instance-profile*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateLoginProfile</a>	Grants permission to create a password for the specified IAM user	Write	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOpenIDConnectProvider</a>	Grants permission to create an IAM resource that describes an identity provider (IdP) that supports OpenID Connect (OIDC)	Write	<a href="#">oidc-provider*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePolicy</a>	Grants permission to create a new managed policy	Permissions management	<a href="#">policy*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePolicyVersion</a>	Grants permission to create a new version of the specified managed policy	Permissions management	<a href="#">policy*</a>		
<a href="#">CreateRole</a>	Grants permission to create a new role	Write	<a href="#">role*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">iam:PermissionsBoundary</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateSAMLProvider</a>	Grants permission to create an IAM resource that describes an identity provider (IdP) that supports SAML 2.0	Write	<a href="#">saml-provider*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateServiceLinkedRole</a>	Grants permission to create an IAM role that allows an AWS service to perform actions on your behalf	Write	<a href="#">role*</a>	<a href="#">iam:AWSServiceName</a>	
<a href="#">CreateServiceSpecificCredential</a>	Grants permission to create a new service-specific credential for an IAM user	Write	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">iam:ServiceSpecificCredentialAgeDays</a>  <a href="#">iam:ServiceSpecificCredentialServiceName</a>	
<a href="#">CreateUser</a>	Grants permission to create a new IAM user	Write	<a href="#">user*</a>	<a href="#">iam:PermissionsBoundary</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateVirtualMFADevice</a>	Grants permission to create a new virtual MFA device	Write	<a href="#">mfa*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeactivateMFADevice</a>	Grants permission to deactivate the specified MFA device and remove its association with the IAM user for which it was originally enabled	Write	<a href="#">user*</a>		
<a href="#">DeleteAccessKey</a>	Grants permission to delete the access key pair that is associated with the specified IAM user	Write	<a href="#">user*</a>		
<a href="#">DeleteAccountAlias</a>	Grants permission to delete the specified AWS account alias	Write			
<a href="#">DeleteAccountPasswordPolicy</a>	Grants permission to delete the password policy for the AWS account	Permissions management			
<a href="#">DeleteCloudFrontPublicKey</a>	Grants permission to delete an existing CloudFront public key	Write			
<a href="#">DeleteGroup</a>	Grants permission to delete the specified IAM group	Write	<a href="#">group*</a>		
<a href="#">DeleteGroupPolicy</a>	Grants permission to delete the specified inline policy from its group	Permissions management	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInstanceProfile</a>	Grants permission to delete the specified instance profile	Write	<a href="#">instance-profile*</a>		
<a href="#">DeleteLoginProfile</a>	Grants permission to delete the password for the specified IAM user	Write	<a href="#">user*</a>		
<a href="#">DeleteOpenIDConnectProvider</a>	Grants permission to delete an OpenID Connect identity provider (IdP) resource object in IAM	Write	<a href="#">oidc-provider*</a>		
<a href="#">DeletePolicy</a>	Grants permission to delete the specified managed policy and remove it from any IAM entities (users, groups, or roles) to which it is attached	Permissions management	<a href="#">policy*</a>		
<a href="#">DeletePolicyVersion</a>	Grants permission to delete a version from the specified managed policy	Permissions management	<a href="#">policy*</a>		
<a href="#">DeleteRole</a>	Grants permission to delete the specified role	Write	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">DeleteRolePermissionsBoundary</a>	Grants permission to remove the permissions boundary from a role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRolePolicy</a>	Grants permission to delete the specified inline policy from the specified role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">DeleteSAMLProvider</a>	Grants permission to delete a SAML provider resource in IAM	Write	<a href="#">saml-provider*</a>		
<a href="#">DeleteSSHPublicKey</a>	Grants permission to delete the specified SSH public key	Write	<a href="#">user*</a>		
<a href="#">DeleteServerCertificate</a>	Grants permission to delete the specified server certificate	Write	<a href="#">server-certificate*</a>		
<a href="#">DeleteServiceLinkedRole</a>	Grants permission to delete an IAM role that is linked to a specific AWS service, if the service is no longer using it	Write	<a href="#">role*</a>		
<a href="#">DeleteServiceSpecificCredential</a>	Grants permission to delete the specified service-specific credential for an IAM user	Write	<a href="#">user*</a>	<a href="#">iam:ServiceSpecificCredentialServiceName</a>	
<a href="#">DeleteSigningCertificate</a>	Grants permission to delete a signing certificate that is associated with the specified IAM user	Write	<a href="#">user*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteUser</a>	Grants permission to delete the specified IAM user	Write	<a href="#">user*</a>		
<a href="#">DeleteUserPermissionsBoundary</a>	Grants permission to remove the permissions boundary from the specified IAM user	Permissions management	<a href="#">user*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">DeleteUserPolicy</a>	Grants permission to delete the specified inline policy from an IAM user	Permissions management	<a href="#">user*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">DeleteVirtualMFADevice</a>	Grants permission to delete a virtual MFA device	Write	<a href="#">mfa</a> <a href="#">sms-mfa</a>		
<a href="#">DetachGroupPolicy</a>	Grants permission to detach a managed policy from the specified IAM group	Permissions management	<a href="#">group*</a>	<a href="#">iam:PolicyARN</a>	
<a href="#">DetachRolePolicy</a>	Grants permission to detach a managed policy from the specified role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PolicyARN</a> <a href="#">iam:PermissionsBoundary</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachUserPolicy</a>	Grants permission to detach a managed policy from the specified IAM user	Permissions management	<a href="#">user*</a>	<a href="#">iam:PolicyARN</a> <a href="#">iam:PermissionsBoundary</a>	
<a href="#">DisableOrganizationsRootCredentialsManagement</a>	Grants permission to disable the management of member account root user credentials for an organization managed under the current account	Write			
<a href="#">DisableOrganizationsRootSessions</a>	Grants permission to disable privileged root actions in member accounts for an organization managed under the current account	Write			
<a href="#">DisableOutboundWebIdentityFederation</a>	Disables the outbound identity federation feature for the callers account	Write			
<a href="#">EnableMFADevice</a>	Grants permission to enable an MFA device and associate it with the specified IAM user	Write	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">iam:RegistrarSecurityKey</a> <a href="#">iam:FIDO-FIPS-140-2-certification</a> <a href="#">iam:FIDO-FIPS-140-3-certification</a> <a href="#">iam:FIDO-certification</a>	
<a href="#">EnableOrganizationRootCredentialsManagement</a>	Grants permission to enable the management of member account root user credentials for an organization managed under the current account	Write			
<a href="#">EnableOrganizationRootSessions</a>	Grants permission to enable privileged root actions in member accounts for an organization managed under the current account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableOutboundWebIdentityFederation</a>	Enables the outbound identity federation feature for the callers account	Write			
<a href="#">GenerateCredentialReport</a>	Grants permission to generate a credential report for the AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateOrganizationsAccessReport</a>	Grants permission to generate an access report for an AWS Organizations entity	Read	<a href="#">access-report*</a>		organizations:DescribePolicy  organizations:ListChildren  organizations:ListParents  organizations:ListPoliciesForTarget  organizations:ListRoots  organizations:ListTargetsForPolicy
				<a href="#">iam:OrganizationsPolicyId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateServiceLastAccessedDetails</a>	Grants permission to generate a service last accessed data report for an IAM resource	Read	<a href="#">group*</a>		
			<a href="#">policy*</a>		
			<a href="#">role*</a>		
			<a href="#">user*</a>		
<a href="#">GetAccessKeyLastUsed</a>	Grants permission to retrieve information about when the specified access key was last used	Read	<a href="#">user*</a>		
<a href="#">GetAccountAuthorizationDetails</a>	Grants permission to retrieve information about all IAM users, groups, roles, and policies in your AWS account, including their relationships to one another	Read			
<a href="#">GetAccountEmailAddress</a>	Grants permission to retrieve the email address that is associated with the account	Read			
<a href="#">GetAccountName</a>	Grants permission to retrieve the account name that is associated with the account	Read			
<a href="#">GetAccountPasswordPolicy</a>	Grants permission to retrieve the password policy for the AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountSummary</a>	Grants permission to retrieve information about IAM entity usage and IAM quotas in the AWS account	List			
<a href="#">GetCloudFrontPublicKey</a>	Grants permission to retrieve information about the specified CloudFront public key	Read			
<a href="#">GetContextKeysForCustomPolicy</a>	Grants permission to retrieve a list of all of the context keys that are referenced in the specified policy	Read			
<a href="#">GetContextKeysForPrincipalPolicy</a>	Grants permission to retrieve a list of all context keys that are referenced in all IAM policies that are attached to the specified IAM identity (user, group, or role)	Read	<a href="#">group</a> <a href="#">role</a> <a href="#">user</a>		
<a href="#">GetCredentialReport</a>	Grants permission to retrieve a credential report for the AWS account	Read			
<a href="#">GetDelegationRequest</a>	Retrieves information about a specific delegation request	Read	<a href="#">delegation-request*</a>		
<a href="#">GetGroup</a>	Grants permission to retrieve a list of IAM users in the specified IAM group	Read	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGroupPolicy</a>	Grants permission to retrieve an inline policy document that is embedded in the specified IAM group	Read	<a href="#">group*</a>		
<a href="#">GetHumanReadableSummary</a>	Retrieves a human readable summary for a given entity. At this time, only delegation request are supported	Read	<a href="#">delegation-request*</a>		
<a href="#">GetInstanceProfile</a>	Grants permission to retrieve information about the specified instance profile, including the instance profile's path, GUID, ARN, and role	Read	<a href="#">instance-profile*</a>		
<a href="#">GetLoginProfile</a>	Grants permission to retrieve the user name and password creation date for the specified IAM user	List	<a href="#">user*</a>		
<a href="#">GetMFADevice</a>	Grants permission to retrieve information about an MFA device for the specified user	Read	<a href="#">user*</a>		
<a href="#">GetOpenIDConnectProvider</a>	Grants permission to retrieve information about the specified OpenID Connect (OIDC) provider resource in IAM	Read	<a href="#">oidc-provider*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOrganizationsAccessReport</a>	Grants permission to retrieve an AWS Organizations access report	Read			
<a href="#">GetOutboundWebIdentityFederationInfo</a>	Retrieves the configuration information for the outbound identity federation feature for the callers account	Read			
<a href="#">GetPolicy</a>	Grants permission to retrieve information about the specified managed policy, including the policy's default version and the total number of identities to which the policy is attached	Read	<a href="#">policy*</a>		
<a href="#">GetPolicyVersion</a>	Grants permission to retrieve information about a version of the specified managed policy, including the policy document	Read	<a href="#">policy*</a>		
<a href="#">GetRole</a>	Grants permission to retrieve information about the specified role, including the role's path, GUID, ARN, and the role's trust policy	Read	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">GetRolePolicy</a>	Grants permission to retrieve an inline policy document that is embedded with the specified IAM role	Read	<a href="#">role*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSAMLProvider</a>	Grants permission to retrieve the SAML provider metadocument that was uploaded when the IAM SAML provider resource was created or updated	Read	<a href="#">saml-provider*</a>		
<a href="#">GetSSHPublicKey</a>	Grants permission to retrieve the specified SSH public key, including metadata about the key	Read	<a href="#">user*</a>		
<a href="#">GetServerCertificate</a>	Grants permission to retrieve information about the specified server certificate stored in IAM	Read	<a href="#">server-certificate*</a>		
<a href="#">GetServiceLastAccessedDetails</a>	Grants permission to retrieve information about the service last accessed data report	Read			
<a href="#">GetServiceLastAccessedDetailsWithEntities</a>	Grants permission to retrieve information about the entities from the service last accessed data report	Read			
<a href="#">GetServiceLinkedRoleDeletionStatus</a>	Grants permission to retrieve an IAM service-linked role deletion status	Read	<a href="#">role*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUser</a>	Grants permission to retrieve information about the specified IAM user, including the user's creation date, path, unique ID, and ARN	Read	<a href="#">user*</a>		
<a href="#">GetUserPolicy</a>	Grants permission to retrieve an inline policy document that is embedded in the specified IAM user	Read	<a href="#">user*</a>		
<a href="#">ListAccessKeys</a>	Grants permission to list information about the access key IDs that are associated with the specified IAM user	List	<a href="#">user*</a>		
<a href="#">ListAccountAliases</a>	Grants permission to list the account alias that is associated with the AWS account	List			
<a href="#">ListAttachedGroupPolicies</a>	Grants permission to list all managed policies that are attached to the specified IAM group	List	<a href="#">group*</a>		
<a href="#">ListAttachedRolePolicies</a>	Grants permission to list all managed policies that are attached to the specified IAM role	List	<a href="#">role*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAttachedUserPolicies</a>	Grants permission to list all managed policies that are attached to the specified IAM user	List	<a href="#">user*</a>		
<a href="#">ListCloudFrontPublicKeys</a>	Grants permission to list all current CloudFront public keys for the account	List			
<a href="#">ListDelegationRequests</a>	Lists delegation requests based on the specified criteria	List		<a href="#">iam:DelegationRequestOwner</a>	
<a href="#">ListEntitiesForPolicy</a>	Grants permission to list all IAM identities to which the specified managed policy is attached	List	<a href="#">policy*</a>		
<a href="#">ListGroupPolicies</a>	Grants permission to list the names of the inline policies that are embedded in the specified IAM group	List	<a href="#">group*</a>		
<a href="#">ListGroups</a>	Grants permission to list the IAM groups that have the specified path prefix	List			
<a href="#">ListGroupForUser</a>	Grants permission to list the IAM groups that the specified IAM user belongs to	List	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInstanceProfileTags</a>	Grants permission to list the tags that are attached to the specified instance profile	List	<a href="#">instance-profile*</a>		
<a href="#">ListInstanceProfiles</a>	Grants permission to list the instance profiles that have the specified path prefix	List			
<a href="#">ListInstanceProfilesForRole</a>	Grants permission to list the instance profiles that have the specified associated IAM role	List	<a href="#">role*</a>		
<a href="#">ListMFADeviceTags</a>	Grants permission to list the tags that are attached to the specified virtual mfa device	List	<a href="#">mfa*</a>		
<a href="#">ListMFADevices</a>	Grants permission to list the MFA devices for an IAM user	List	<a href="#">user</a>		
<a href="#">ListOpenIDConnectProviderTags</a>	Grants permission to list the tags that are attached to the specified OpenID Connect provider	List	<a href="#">oidc-provider*</a>		
<a href="#">ListOpenIDConnectProviders</a>	Grants permission to list information about the IAM OpenID Connect (OIDC) provider resource objects that are defined in the AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOrganizationsFeatures</a>	Grants permission to list the centralized root access features enabled for your organization	List			
<a href="#">ListPolicies</a>	Grants permission to list all managed policies	List			
<a href="#">ListPoliciesGrantingServiceAccess</a>	Grants permission to list information about the policies that grant an entity access to a specific service	List	<a href="#">group*</a>		
			<a href="#">role*</a>		
			<a href="#">user*</a>		
<a href="#">ListPolicyTags</a>	Grants permission to list the tags that are attached to the specified managed policy	List	<a href="#">policy*</a>		
<a href="#">ListPolicyVersions</a>	Grants permission to list information about the versions of the specified managed policy, including the version that is currently set as the policy's default version	List	<a href="#">policy*</a>		
<a href="#">ListRolePolicies</a>	Grants permission to list the names of the inline policies that are embedded in the specified IAM role	List	<a href="#">role*</a>		
<a href="#">ListRoleTags</a>	Grants permission to list the tags that are attached to the specified IAM role	List	<a href="#">role*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRoles</a>	Grants permission to list the IAM roles that have the specified path prefix	List			
<a href="#">ListSAMLProviderTags</a>	Grants permission to list the tags that are attached to the specified SAML provider	List	<a href="#">saml-provider*</a>		
<a href="#">ListSAMLProviders</a>	Grants permission to list the SAML provider resources in IAM	List			
<a href="#">ListSSHPublicKeys</a>	Grants permission to list information about the SSH public keys that are associated with the specified IAM user	List	<a href="#">user*</a>		
<a href="#">ListSTSRegionalEndpointsStatus</a>	Grants permission to list the status of all active STS regional endpoints	List			
<a href="#">ListServerCertificateTags</a>	Grants permission to list the tags that are attached to the specified server certificate	List	<a href="#">server-certificate*</a>		
<a href="#">ListServerCertificates</a>	Grants permission to list the server certificates that have the specified path prefix	List			
<a href="#">ListServiceSpecificCredentials</a>	Grants permission to list the service-specific credentials that are associated with the specified IAM user	List	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSigningCertificates</a>	Grants permission to list information about the signing certificates that are associated with the specified IAM user	List	<a href="#">user*</a>		
<a href="#">ListUserPolicies</a>	Grants permission to list the names of the inline policies that are embedded in the specified IAM user	List	<a href="#">user*</a>		
<a href="#">ListUserTags</a>	Grants permission to list the tags that are attached to the specified IAM user	List	<a href="#">user*</a>		
<a href="#">ListUsers</a>	Grants permission to list the IAM users that have the specified path prefix	List			
<a href="#">ListVirtualMFADevices</a>	Grants permission to list virtual MFA devices by assignment status	List			
<a href="#">PassRole</a> [permission only]	Grants permission to pass a role to a service	Write	<a href="#">role*</a>	<a href="#">iam:AssociatedResourceArn</a>  <a href="#">iam:PassedToService</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutGroupPolicy</a>	Grants permission to create or update an inline policy document that is embedded in the specified IAM group	Permissions management	<a href="#">group*</a>		
<a href="#">PutRolePermissionsBoundary</a>	Grants permission to set a managed policy as a permissions boundary for a role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">PutRolePolicy</a>	Grants permission to create or update an inline policy document that is embedded in the specified IAM role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">PutUserPermissionsBoundary</a>	Grants permission to set a managed policy as a permissions boundary for an IAM user	Permissions management	<a href="#">user*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">PutUserPolicy</a>	Grants permission to create or update an inline policy document that is embedded in the specified IAM user	Permissions management	<a href="#">user*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">RejectDelegationRequest</a>	Rejects a delegation request, denying the requested temporary access	Write	<a href="#">delegation-request*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveClientIDFromOpenIDConnectProvider</a>	Grants permission to remove the client ID (audience) from the list of client IDs in the specified IAM OpenID Connect (OIDC) provider resource	Write	<a href="#">oidc-provider*</a>		
<a href="#">RemoveRoleFromInstanceProfile</a>	Grants permission to remove an IAM role from the specified EC2 instance profile	Write	<a href="#">instance-profile*</a>		
<a href="#">RemoveUserFromGroup</a>	Grants permission to remove an IAM user from the specified group	Write	<a href="#">group*</a>		
<a href="#">ResetServiceSpecificCredential</a>	Grants permission to reset the password for an existing service-specific credential for an IAM user	Write	<a href="#">user*</a>	<a href="#">iam:ServiceSpecificCredentialServiceName</a>	
<a href="#">ResyncMFADevice</a>	Grants permission to synchronize the specified MFA device with its IAM entity (user or role)	Write	<a href="#">user*</a>		
<a href="#">SendDelegationToken</a>	Sends the exchange token for an accepted delegation request	Write	<a href="#">delegation-request*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetDefaultPolicyVersion</a>	Grants permission to set the version of the specified policy as the policy's default version	Permissions management	<a href="#">policy*</a>		
<a href="#">SetSTSRegionalEndpointStatus</a>	Grants permission to activate or deactivate an STS regional endpoint	Write			
<a href="#">SetSecurityTokenServicePreferences</a>	Grants permission to set the STS global endpoint token version	Write			
<a href="#">SimulateCustomPolicy</a>	Grants permission to simulate whether an identity-based policy or resource-based policy provides permissions for specific API operations and resources	Read			
<a href="#">SimulatePrincipalPolicy</a>	Grants permission to simulate whether an identity-based policy that is attached to a specified IAM entity (user or role) provides permissions for specific API operations and resources	Read	<a href="#">group</a> <a href="#">role</a> <a href="#">user</a>		
<a href="#">TagInstanceProfile</a>	Grants permission to add tags to an instance profile	Tagging	<a href="#">instance-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagMFADevice</a>	Grants permission to add tags to a virtual mfa device	Tagging	<a href="#">mfa*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagOpenIDConnectProvider</a>	Grants permission to add tags to an OpenID Connect provider	Tagging	<a href="#">oidc-provider*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagPolicy</a>	Grants permission to add tags to a managed policy	Tagging	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagRole</a>	Grants permission to add tags to an IAM role	Tagging	<a href="#">role*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagSAMLProvider</a>	Grants permission to add tags to a SAML Provider	Tagging	<a href="#">saml-provider*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagServerCertificate</a>	Grants permission to add tags to a server certificate	Tagging	<a href="#">server-certificate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagUser</a>	Grants permission to add tags to an IAM user	Tagging	<a href="#">user*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagInstanceProfile</a>	Grants permission to remove the specified tags from the instance profile	Tagging	<a href="#">instance-profile*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagMFADevice</a>	Grants permission to remove the specified tags from the virtual mfa device	Tagging	<a href="#">mfa*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagOpenIDConnectProvider</a>	Grants permission to remove the specified tags from the OpenID Connect provider	Tagging	<a href="#">oidc-provider*</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagPolicy</a>	Grants permission to remove the specified tags from the managed policy	Tagging	<a href="#">policy*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UntagRole</a>	Grants permission to remove the specified tags from the role	Tagging	<a href="#">role*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UntagSAMLProvider</a>	Grants permission to remove the specified tags from the SAML Provider	Tagging	<a href="#">saml-provider*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UntagServerCertificate</a>	Grants permission to remove the specified tags from the server certificate	Tagging	<a href="#">server-certificate*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UntagUser</a>	Grants permission to remove the specified tags from the user	Tagging	<a href="#">user*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessKey</a>	Grants permission to update the status of the specified access key as Active or Inactive	Write	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAccountEmailAddress</a>	Grants permission to update the email address that is associated with the account	Write			
<a href="#">UpdateAccountName</a>	Grants permission to update the account name that is associated with the account	Write			
<a href="#">UpdateAccountPasswordPolicy</a>	Grants permission to update the password policy settings for the AWS account	Write			
<a href="#">UpdateAssumeRolePolicy</a>	Grants permission to update the policy that grants an IAM entity permission to assume a role	Permissions management	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">UpdateCloudFrontPublicKey</a>	Grants permission to update an existing CloudFront public key	Write			
<a href="#">UpdateGroup</a>	Grants permission to update the name or path of the specified IAM group	Write	<a href="#">group*</a>		
<a href="#">UpdateLoginProfile</a>	Grants permission to change the password for the specified IAM user	Write	<a href="#">user*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOpenIDConnectProviderThumbprint</a>	Grants permission to update the entire list of server certificate thumbprints that are associated with an OpenID Connect (OIDC) provider resource	Write	<a href="#">oidc-provider*</a>		
<a href="#">UpdateRole</a>	Grants permission to update the description or maximum session duration setting of a role	Write	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">UpdateRoleDescription</a>	Grants permission to update only the description of a role	Write	<a href="#">role*</a>	<a href="#">iam:PermissionsBoundary</a>	
<a href="#">UpdateSAMLProvider</a>	Grants permission to update the metadata document for an existing SAML provider resource	Write	<a href="#">saml-provider*</a>		
<a href="#">UpdateSSHPublicKey</a>	Grants permission to update the status of an IAM user's SSH public key to active or inactive	Write	<a href="#">user*</a>		
<a href="#">UpdateServerCertificate</a>	Grants permission to update the name or the path of the specified server certificate stored in IAM	Write	<a href="#">server-certificate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateServiceSpecificCredential</a>	Grants permission to update the status of a service-specific credential to active or inactive for an IAM user	Write	<a href="#">user*</a>	<a href="#">iam:ServiceSpecificCredentialServiceName</a>	
<a href="#">UpdateSigningCertificate</a>	Grants permission to update the status of the specified user signing certificate to active or disabled	Write	<a href="#">user*</a>		
<a href="#">UpdateUser</a>	Grants permission to update the name or the path of the specified IAM user	Write	<a href="#">user*</a>		
<a href="#">UploadCloudFrontPublicKey</a>	Grants permission to upload a CloudFront public key	Write			
<a href="#">UploadSSHPublicKey</a>	Grants permission to upload an SSH public key and associate it with the specified IAM user	Write	<a href="#">user*</a>		
<a href="#">UploadServerCertificate</a>	Grants permission to upload a server certificate entity for the AWS account	Write	<a href="#">server-certificate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UploadSigningCertificate</a>	Grants permission to upload an X.509 signing certificate and associate it with the specified IAM user	Write	<a href="#">user*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

## Resource types defined by AWS Identity and Access Management (IAM)

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">access-report</a>	arn:\${Partition}:iam::\${Account}:access-report/\${EntityPath}	
<a href="#">assumed-role</a>	arn:\${Partition}:iam::\${Account}:assumed-role/\${RoleName}/\${RoleSessionName}	

Resource types	ARN	Condition keys
<a href="#">federated-user</a>	arn:\${Partition}:iam:\${Account}:federated-user/\${UserName}	
<a href="#">group</a>	arn:\${Partition}:iam:\${Account}:group/\${GroupNameWithPath}	
<a href="#">instance-profile</a>	arn:\${Partition}:iam:\${Account}:instance-profile/\${InstanceProfileNameWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mfa</a>	arn:\${Partition}:iam:\${Account}:mfa/\${MfaTokenIdWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">oidc-provider</a>	arn:\${Partition}:iam:\${Account}:oidc-provider/\${OidcProviderName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">policy</a>	arn:\${Partition}:iam:\${Account}:policy/\${PolicyNameWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">role</a>	arn:\${Partition}:iam:\${Account}:role/\${RoleNameWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">iam:ResourceTag/\${TagKey}</a>
<a href="#">saml-provider</a>	arn:\${Partition}:iam:\${Account}:saml-provider/\${SamlProviderName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">server-certificate</a>	arn:\${Partition}:iam:\${Account}:server-certificate/\${CertificateNameWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sms-mfa</a>	arn:\${Partition}:iam:\${Account}:sms-mfa/\${MfaTokenIdWithPath}	

Resource types	ARN	Condition keys
<a href="#">user</a>	arn:\${Partition}:iam::\${Account}:user/\${UserNameWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">iam:ResourceTag/\${TagKey}</a>
<a href="#">delegation-request</a>	arn:\${Partition}:iam::\${Account}:delegation-request/\${DelegationRequestId}	<a href="#">iam:DelegationRequestOwner</a>

## Condition keys for AWS Identity and Access Management (IAM)

AWS Identity and Access Management (IAM) defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString
<a href="#">iam:AWSServiceName</a>	Filters access by the AWS service to which this role is attached	String

Condition keys	Description	Type
<a href="#">iam:AssociatedResourceArn</a>	Filters access by the resource that the role will be used on behalf of	ARN
<a href="#">iam:DelegationDuration</a>	Filters access based on the requested delegation duration	String
<a href="#">iam:DelegationRequestOwner</a>	Filters access based on the delegation request owner	ARN
<a href="#">iam:FIDO-FIPS-140-2-certification</a>	Filters access by the MFA device FIPS-140-2 validation certification level at the time of registration of a FIDO security key	String
<a href="#">iam:FIDO-FIPS-140-3-certification</a>	Filters access by the MFA device FIPS-140-3 validation certification level at the time of registration of a FIDO security key	String
<a href="#">iam:FIDO-certification</a>	Filters access by the MFA device FIDO certification level at the time of registration of a FIDO security key	String
<a href="#">iam:NotificationChannel</a>	Filters access based on the requested notification channel	String
<a href="#">iam:OrganizationsPolicyId</a>	Filters access by the ID of an AWS Organizations policy	String
<a href="#">iam:PassedToService</a>	Filters access by the AWS service to which this role is passed	String
<a href="#">iam:PermissionsBoundary</a>	Filters access if the specified policy is set as the permissions boundary on the IAM entity (user or role)	ARN
<a href="#">iam:PolicyARN</a>	Filters access by the ARN of an IAM policy	ARN

Condition keys	Description	Type
<a href="#">iam:RegistrarSecurityKey</a>	Filters access by the current state of MFA device enablement	String
<a href="#">iam:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to an IAM entity (user or role)	String
<a href="#">iam:ServiceSpecificCredentialAgeDays</a>	Filters access by the duration until the credential's expiration	Numeric
<a href="#">iam:ServiceSpecificCredentialServiceName</a>	Filters access by the service associated with the credential	String
<a href="#">iam:TemplateArn</a>	Filters access based on the requested template ARN	ARN

## Actions, resources, and condition keys for AWS Identity and Access Management Roles Anywhere

AWS Identity and Access Management Roles Anywhere (service prefix: `rolesanywhere`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Identity and Access Management Roles Anywhere](#)

- [Resource types defined by AWS Identity and Access Management Roles Anywhere](#)
- [Condition keys for AWS Identity and Access Management Roles Anywhere](#)

## Actions defined by AWS Identity and Access Management Roles Anywhere

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProfile</a>	Grants permission to create a profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">CreateTrustAnchor</a>	Grants permission to create a trust anchor	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAttributeMapping</a>	Grants permission to delete a mapping rule from a profile	Write	<a href="#">profile*</a>		
<a href="#">DeleteCrl</a>	Grants permission to delete a certificate revocation list (crl)	Write	<a href="#">crl*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProfile</a>	Grants permission to delete a profile	Write	<a href="#">profile*</a>		
<a href="#">DeleteTrustAnchor</a>	Grants permission to delete a trust anchor	Write	<a href="#">trust-anchor*</a>		
<a href="#">DisableCrl</a>	Grants permission to disable a certificate revocation list (crl)	Write	<a href="#">crl*</a>		
<a href="#">DisableProfile</a>	Grants permission to disable a profile	Write	<a href="#">profile*</a>		
<a href="#">DisableTrustAnchor</a>	Grants permission to disable a trust anchor	Write	<a href="#">trust-anchor*</a>		
<a href="#">EnableCrl</a>	Grants permission to enable a certificate revocation list (crl)	Write	<a href="#">crl*</a>		
<a href="#">EnableProfile</a>	Grants permission to enable a profile	Write	<a href="#">profile*</a>		iam:PassRole
<a href="#">EnableTrustAnchor</a>	Grants permission to enable a trust anchor	Write	<a href="#">trust-anchor*</a>		
<a href="#">GetCrl</a>	Grants permission to get a certificate revocation list (crl)	Read	<a href="#">crl*</a>		
<a href="#">GetProfile</a>	Grants permission to get a profile	Read	<a href="#">profile*</a>		
<a href="#">GetSubject</a>	Grants permission to get a subject	Read	<a href="#">subject*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTrustAnchor</a>	Grants permission to get a trust anchor	Read	<a href="#">trust-anchor*</a>		
<a href="#">ImportCrl</a>	Grants permission to import a certificate revocation list (crl)	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListCrls</a>	Grants permission to list certificate revocation lists (crls)	List			
<a href="#">ListProfiles</a>	Grants permission to list profiles	List			
<a href="#">ListSubjects</a>	Grants permission to list subjects	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	List			
<a href="#">ListTrustAnchors</a>	Grants permission to list trust anchors	List			
<a href="#">PutAttributeMapping</a>	Grants permission to put a mapping rule into a profile	Write	<a href="#">profile*</a>		
<a href="#">PutNotificationSettings</a>	Grants permission to attach notification settings to a trust anchor	Write	<a href="#">trust-anchor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetNotificationSettings</a>	Grants permission to reset custom notification settings to IAM Roles Anywhere defined default state	Write	<a href="#">trust-anchhor*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">crl</a>		
			<a href="#">profile</a>		
			<a href="#">subject</a>		
			<a href="#">trust-anchhor</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	<a href="#">aws:TagKeys</a>
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">crl</a>		
			<a href="#">profile</a>		
			<a href="#">subject</a>		
			<a href="#">trust-anchhor</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCrl</a>	Grants permission to update a certificate revocation list (crl)	Write	<a href="#">crl*</a>		
<a href="#">UpdateProfile</a>	Grants permission to update a profile	Write	<a href="#">profile*</a>		iam:PassRole
<a href="#">UpdateTrustAnchor</a>	Grants permission to update a trust anchor	Write	<a href="#">trust-anchor*</a>		

## Resource types defined by AWS Identity and Access Management Roles Anywhere

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">trust-anchor</a>	arn:\${Partition}:rolesanywhere:\${Region}:\${Account}:trust-anchor/\${TrustAnchorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">profile</a>	arn:\${Partition}:rolesanywhere:\${Region}:\${Account}:profile/\${ProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subject</a>	arn:\${Partition}:rolesanywhere:\${Region}:\${Account}:subject/\${SubjectId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">crl</a>	arn:\${Partition}:rolesanywhere:\${Region}:\${Account}:crl/\${CrlId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Identity and Access Management Roles Anywhere

AWS Identity and Access Management Roles Anywhere defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Identity Store

AWS Identity Store (service prefix: `identitystore`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Identity Store](#)
- [Resource types defined by AWS Identity Store](#)
- [Condition keys for AWS Identity Store](#)

## Actions defined by AWS Identity Store

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddRegion</a>	Grants permission to add a region to an IdentityStore	Write			kms:Decrypt
<a href="#">CreateGroup</a>	Grants permission to create a group in the specified IdentityStore	Write	<a href="#">IdentityStore*</a>		kms:Decrypt
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">CreateGroupMembership</a>	Grants permission to create a member to a group in the specified IdentityStore	Write	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">IdentityStore*</a>		
			<a href="#">User*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIdentityStore</a>	Grants permission to create a new IdentityStore in an AWS account	Write			kms:Decrypt kms:DescribeKey kms:Encrypt kms:GenerateDataKeyWithoutPlaintext
<a href="#">CreateUser</a>	Grants permission to create a user in the specified IdentityStore	Write	<a href="#">IdentityStore*</a>	<a href="#">identitystore:PrimaryRegion</a> <a href="#">identitystore:UserExternalIssuers</a> <a href="#">identitystore:ReservedUserId</a>	kms:Decrypt
<a href="#">DeleteGroup</a>	Grants permission to delete a group in the specified IdentityStore	Write	<a href="#">Group*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Identitystore*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:GroupExternalIdIssuers</a>	
<a href="#">DeleteGroupMemberships</a>	Grants permission to remove a member that is part of a group in the specified IdentityStore	Write	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">GroupMembership*</a>		
			<a href="#">Identitystore*</a>		
			<a href="#">User*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">DeleteIdentityStore</a>	Grants permission to delete an IdentityStore	Write			
<a href="#">DeleteUser</a>	Grants permission to delete a user in the specified IdentityStore	Write	<a href="#">Identitystore*</a>		kms:Decrypt
			<a href="#">User*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:UserExternalIssuers</a>	
<a href="#">DescribeGroup</a>	Grants permission to retrieve information about a group in the specified IdentityStore	Read	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">Identitystore*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:GroupExternalIssuers</a>	
<a href="#">DescribeGroupMembership</a>	Grants permission to retrieve information about a member that is part of a group in the specified IdentityStore	Read	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">GroupMembership*</a>		
			<a href="#">Identitystore*</a>		
			<a href="#">User*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">DescribeRegion</a>	Grants permission to retrieve configuration details for a specific IdentityStore region	Read		<a href="#">identitystore:PrimaryRegion</a>	kms:Decrypt
<a href="#">DescribeUser</a>	Grants permission to retrieve information about user in the specified IdentityStore	Read	<a href="#">Identitystore*</a>		kms:Decrypt
			<a href="#">User*</a>		
				<a href="#">identitystore:PrimaryRegion</a> <a href="#">identitystore:UserExternalIssuers</a>	
<a href="#">GetGroupId</a>	Grants permission to retrieve ID information about group in the specified IdentityStore	Read	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">Identitystore*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGroupMembershipId</a>	Grants permission to retrieve ID information of a member which is part of a group in the specified IdentityStore	Read	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">GroupMembership*</a>		
			<a href="#">Identitystore*</a>		
			<a href="#">User*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">GetUserId</a>	Grants permission to retrieves ID information about user in the specified IdentityStore	Read	<a href="#">Identitystore*</a>		kms:Decrypt
			<a href="#">User*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">IsMemberInGroups</a>	Grants permission to check if a member is a part of groups in the specified IdentityStore	Read	<a href="#">AllGroupMembers*</a>		kms:Decrypt
			<a href="#">Group*</a>		
			<a href="#">Identitystore*</a>		
			<a href="#">User*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">ListGroupMemberships</a>	Grants permission to retrieve all members that are part of a group in the specified IdentityStore	List	<a href="#">AllGroupMemberships*</a>		kms:Decrypt
			<a href="#">Group*</a>		
			<a href="#">Identitystore*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">ListGroupMembershipsForMember</a>	Grants permission to list groups of the target member in the specified IdentityStore	List	<a href="#">AllGroupMemberships*</a>		kms:Decrypt
			<a href="#">Identitystore*</a>		
			<a href="#">User*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
<a href="#">ListGroups</a>	Grants permission to search for groups within the specified IdentityStore	List	<a href="#">AllGroups*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Identitystore*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:GroupExternalIdIssuers</a>	
<a href="#">ListRegions</a>	Grants permission to list all regions configured for an IdentityStore	List		<a href="#">identitystore:PrimaryRegion</a>	kms:Decrypt
<a href="#">ListUsers</a>	Grants permission to search for users in the specified IdentityStore	List	<a href="#">AllUsers*</a>		kms:Decrypt
			<a href="#">Identitystore*</a>		
				<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:UserExternalIdIssuers</a>	
<a href="#">RemoveRegion</a>	Grants permission to remove a region from an IdentityStore	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReserveUser</a>	Grants permission to reserve a user by getting a userId	Write	<a href="#">Identitystore*</a>		kms:Decrypt
<a href="#">UpdateGroup</a>	Grants permission to update information about a group in the specified IdentityStore	Write	<a href="#">Group*</a>		kms:Decrypt
			<a href="#">Identitystore*</a>	<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:PrimaryRegion</a>	
				<a href="#">identitystore:GroupExternalIdIssuers</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIdentityStore</a>	Grants permission to update the configuration of an IdentityStore	Write			kms:Decrypt kms:DescribeKey kms:Encrypt kms:GenerateDataKeyWithoutPlaintext
<a href="#">UpdateUser</a>	Grants permission to update user information in the specified IdentityStore	Write	<a href="#">IdentityStore*</a> <a href="#">User*</a>		kms:Decrypt
				<a href="#">identitystore:PrimaryRegion</a> <a href="#">identitystore:UserExternalIssuers</a>	

## Resource types defined by AWS Identity Store

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Identitystore</a>	arn:\${Partition}:identitystore::\${Account}:identitystore/\${IdentityStoreId}	
<a href="#">User</a>	arn:\${Partition}:identitystore:::user/\${UserId}	
<a href="#">Group</a>	arn:\${Partition}:identitystore:::group/\${GroupId}	
<a href="#">GroupMembership</a>	arn:\${Partition}:identitystore:::membership/\${MembershipId}	
<a href="#">AllUsers</a>	arn:\${Partition}:identitystore:::user/*	
<a href="#">AllGroups</a>	arn:\${Partition}:identitystore:::group/*	
<a href="#">AllGroupMemberships</a>	arn:\${Partition}:identitystore:::membership/*	

## Condition keys for AWS Identity Store

AWS Identity Store defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">identitystore:GroupExternalIdIssuers</a>	Filters access by Issuer present in ExternalIds for Group resources	ArrayOfARN
<a href="#">identitystore:IdentityStoreArn</a>	Filters access by Identity Store ARN	ARN
<a href="#">identitystore:PrimaryRegion</a>	Filters access by Primary Region of Identity Store	String
<a href="#">identitystore:ReservedUserId</a>	Filters access by a previously reserved User ID for CreateUser operation	String
<a href="#">identitystore:UserExternalIdIssuers</a>	Filters access by Issuer present in ExternalIds for User resources	ArrayOfARN
<a href="#">identitystore:UserId</a>	Filters access by Identity Store User ID	String

## Actions, resources, and condition keys for AWS Identity Store Auth

AWS Identity Store Auth (service prefix: `identitystore-auth`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Identity Store Auth](#)
- [Resource types defined by AWS Identity Store Auth](#)
- [Condition keys for AWS Identity Store Auth](#)

## Actions defined by AWS Identity Store Auth

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteSession</a> [permission only]	Grants permission to delete a batch of specified sessions	Write			
<a href="#">BatchGetSession</a> [permission only]	Grants permission to return session attributes for a batch of specified sessions	Read			
<a href="#">ListSessions</a> [permission only]	Grants permission to retrieve a list of active sessions for the specified user	List			

## Resource types defined by AWS Identity Store Auth

AWS Identity Store Auth does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Identity Store Auth, specify "Resource": "\*" in your policy.

## Condition keys for AWS Identity Store Auth

Identity Store Auth has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Identity Sync

AWS Identity Sync (service prefix: `identity-sync`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Identity Sync](#)
- [Resource types defined by AWS Identity Sync](#)
- [Condition keys for AWS Identity Sync](#)

## Actions defined by AWS Identity Sync

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a>	Grants permission to configure vended log delivery for a Sync Profile	Permissions management	<a href="#">SyncProfileResource</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">CreateSyncFilter</a>	Grants permission to create a sync filter on the sync profile	Write	<a href="#">SyncProfileResource*</a>		
<a href="#">CreateSyncProfile</a>	Grants permission to create a sync profile for the identity source	Write			ds:AuthorizeApplication
<a href="#">CreateSyncTarget</a>	Grants permission to create a sync target for the identity source	Write	<a href="#">SyncProfileResource*</a>		
<a href="#">DeleteSyncFilter</a>	Grants permission to delete a sync filter from the sync profile	Write	<a href="#">SyncProfileResource*</a>		
<a href="#">DeleteSyncProfile</a>	Grants permission to delete a sync profile from the source	Write	<a href="#">SyncProfileResource*</a>		ds:UnauthorizeApplication
<a href="#">DeleteSyncTarget</a>	Grants permission to delete a sync target from the source	Write	<a href="#">SyncProfileResource*</a>		
			<a href="#">SyncTargetResource*</a>		
<a href="#">GetSyncProfile</a>	Grants permission to retrieve a sync profile by using a sync profile name	Read	<a href="#">SyncProfileResource*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSyncTarget</a>	Grants permission to retrieve a sync target from the sync profile	Read	<a href="#">SyncProfileResource*</a> <a href="#">SyncTargetResource*</a>		
<a href="#">ListSyncFilters</a>	Grants permission to list the sync filters from the sync profile	List	<a href="#">SyncProfileResource*</a>		
<a href="#">StartSync</a>	Grants permission to start a sync process or to resume a sync process that was previously paused	Write	<a href="#">SyncProfileResource*</a>		
<a href="#">StopSync</a>	Grants permission to stop any planned sync process in the sync schedule from starting	Write	<a href="#">SyncProfileResource*</a>		
<a href="#">UpdateSyncTarget</a>	Grants permission to update a sync target on the sync profile	Write	<a href="#">SyncProfileResource*</a> <a href="#">SyncTargetResource*</a>		

## Resource types defined by AWS Identity Sync

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">SyncProfileResource</a>	arn:\${Partition}:identity-sync:\${Region}:\${Account}:profile/\${SyncProfileName}	
<a href="#">SyncTargetResource</a>	arn:\${Partition}:identity-sync:\${Region}:\${Account}:target/\${SyncProfileName}/\${SyncTargetName}	

## Condition keys for AWS Identity Sync

Identity Sync has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Import Export Disk Service

AWS Import Export Disk Service (service prefix: `importexport`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Import Export Disk Service](#)
- [Resource types defined by AWS Import Export Disk Service](#)

- [Condition keys for AWS Import Export Disk Service](#)

## Actions defined by AWS Import Export Disk Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelJob</a>	This action cancels a specified job. Only the job owner can cancel it. The action fails if the job has already started or is complete.	Write			
<a href="#">CreateJob</a>	This action initiates the process of scheduling an upload or download of your data.	Write			
<a href="#">GetShippingLabel</a>	This action generates a pre-paid shipping label that you will use to ship your device to AWS for processing.	Read			
<a href="#">GetStatus</a>	This action returns information about a job, including where the job is in the processing pipeline, the status of the results, and the	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	signature value associated with the job.				
<a href="#">ListJobs</a>	This action returns the jobs associated with the requester.	List			
<a href="#">UpdateJob</a>	You use this action to change the parameters specified in the original manifest file by supplying a new manifest file.	Write			

## Resource types defined by AWS Import Export Disk Service

AWS Import Export Disk Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Import Export Disk Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Import Export Disk Service

Import/Export has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Inspector

Amazon Inspector (service prefix: `inspector`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Inspector](#)
- [Resource types defined by Amazon Inspector](#)
- [Condition keys for Amazon Inspector](#)

## Actions defined by Amazon Inspector

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddAttributesToFindings</a>	Grants permission to assign attributes (key and value pairs) to the findings that are specified by the ARNs of the findings	Write			
<a href="#">CreateAssessmentTarget</a>	Grants permission to create a new assessment target using the ARN of the resource group that is generated by CreateResourceGroup	Write			
<a href="#">CreateAssessmentTemplate</a>	Grants permission to create an assessment template for the assessment target that is specified by the ARN of the assessment target	Write			
<a href="#">CreateExclusionsPreview</a>	Grants permission to start the generation of an exclusions preview for the specified assessment template	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateResourceGroup</a>	Grants permission to create a resource group using the specified set of tags (key and value pairs) that are used to select the EC2 instances to be included in an Amazon Inspector assessment target	Write			
<a href="#">DeleteAssessmentRun</a>	Grants permission to delete the assessment run that is specified by the ARN of the assessment run	Write			
<a href="#">DeleteAssessmentTarget</a>	Grants permission to delete the assessment target that is specified by the ARN of the assessment target	Write			
<a href="#">DeleteAssessmentTemplate</a>	Grants permission to delete the assessment template that is specified by the ARN of the assessment template	Write			
<a href="#">DescribeAssessmentRuns</a>	Grants permission to describe the assessment runs that are specified by the ARNs of the assessment runs	Read			
<a href="#">DescribeAssessmentTargets</a>	Grants permission to describe the assessment targets that are specified by the ARNs of the assessment targets	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAssessmentTemplates</a>	Grants permission to describe the assessment templates that are specified by the ARNs of the assessment templates	Read			
<a href="#">DescribeCrossAccountAccessRole</a>	Grants permission to describe the IAM role that enables Amazon Inspector to access your AWS account	Read			
<a href="#">DescribeExclusions</a>	Grants permission to describe the exclusions that are specified by the exclusions' ARNs	Read			
<a href="#">DescribeFindings</a>	Grants permission to describe the findings that are specified by the ARNs of the findings	Read			
<a href="#">DescribeResourceGroups</a>	Grants permission to describe the resource groups that are specified by the ARNs of the resource groups	Read			
<a href="#">DescribeRulesPackages</a>	Grants permission to describe the rules packages that are specified by the ARNs of the rules packages	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAssessmentReport</a>	Grants permission to produce an assessment report that includes detailed and comprehensive results of a specified assessment run	Read			
<a href="#">GetExclusionsPreview</a>	Grants permission to retrieve the exclusions preview (a list of ExclusionPreview objects) specified by the preview token	Read			
<a href="#">GetTelemetryMetadata</a>	Grants permission to get information about the data that is collected for the specified assessment run	Read			
<a href="#">ListAssessmentRunAgents</a>	Grants permission to list the agents of the assessment runs that are specified by the ARNs of the assessment runs	List			
<a href="#">ListAssessmentRuns</a>	Grants permission to list the assessment runs that correspond to the assessment templates that are specified by the ARNs of the assessment templates	List			
<a href="#">ListAssessmentTargets</a>	Grants permission to list the ARNs of the assessment targets within this AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssessmentTemplates</a>	Grants permission to list the assessment templates that correspond to the assessment targets that are specified by the ARNs of the assessment targets	List			
<a href="#">ListEventSubscriptions</a>	Grants permission to list all the event subscriptions for the assessment template that is specified by the ARN of the assessment template	List			
<a href="#">ListExclusions</a>	Grants permission to list exclusions that are generated by the assessment run	List			
<a href="#">ListFindings</a>	Grants permission to list findings that are generated by the assessment runs that are specified by the ARNs of the assessment runs	List			
<a href="#">ListRulesPackages</a>	Grants permission to list all available Amazon Inspector rules packages	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags associated with an assessment template	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PreviewAgents</a>	Grants permission to preview the agents installed on the EC2 instances that are part of the specified assessment target	Read			
<a href="#">RegisterCrossAccountAccessRole</a>	Grants permission to register the IAM role that Amazon Inspector uses to list your EC2 instances at the start of the assessment run or when you call the PreviewAgents action	Write			
<a href="#">RemoveAttributesFromFindings</a>	Grants permission to remove entire attributes (key and value pairs) from the findings that are specified by the ARNs of the findings where an attribute with the specified key exists	Write			
<a href="#">SetTagsForResource</a>	Grants permission to set tags (key and value pairs) to the assessment template that is specified by the ARN of the assessment template	Tagging			
<a href="#">StartAssessmentRun</a>	Grants permission to start the assessment run specified by the ARN of the assessment template	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopAssessmentRun</a>	Grants permission to stop the assessment run that is specified by the ARN of the assessment run	Write			
<a href="#">SubscribeToEvent</a>	Grants permission to enable the process of sending Amazon Simple Notification Service (SNS) notifications about a specified event to a specified SNS topic	Write			
<a href="#">UnsubscribeFromEvent</a>	Grants permission to disable the process of sending Amazon Simple Notification Service (SNS) notifications about a specified event to a specified SNS topic	Write			
<a href="#">UpdateAssessmentTarget</a>	Grants permission to update the assessment target that is specified by the ARN of the assessment target	Write			

## Resource types defined by Amazon Inspector

Amazon Inspector does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Inspector, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Inspector

Inspector has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Inspector2

Amazon Inspector2 (service prefix: `inspector2`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Inspector2](#)
- [Resource types defined by Amazon Inspector2](#)
- [Condition keys for Amazon Inspector2](#)

## Actions defined by Amazon Inspector2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Member</a>	Grants permission to associate an account with an Amazon Inspector administrator account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchAssociateCodeSecurityScanConfiguration</a>	Grants permission to associate multiple code repositories with an Amazon Inspector code security scan configuration	Write			
<a href="#">BatchDisassociateCodeSecurityScanConfiguration</a>	Grants permission to disassociate multiple code repositories from an Amazon Inspector code security scan configuration	Write			
<a href="#">BatchGetAccountStatus</a>	Grants permission to retrieve information about Amazon Inspector accounts for an account	Read			
<a href="#">BatchGetCodeSnippet</a>	Grants permission to retrieve code snippet information about one or more code vulnerability findings	Read			
<a href="#">BatchGetFindingDetails</a>	Grants permission to let a customer get enhanced vulnerability intelligence details for findings	Read			
<a href="#">BatchGetFreeTrialInfo</a>	Grants permission to retrieve free trial period eligibility about Amazon Inspector accounts for an account	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetMemberEc2DeepInspectionStatus</a>	Grants permission to delegated administrator to retrieve ec2 deep inspection status of member accounts	Read			
<a href="#">BatchUpdateMemberEc2DeepInspectionStatus</a>	Grants permission to update ec2 deep inspection status by delegated administrator for its associated member accounts	Write			
<a href="#">CancelFindingsReport</a>	Grants permission to cancel the generation of a findings report	Write			
<a href="#">CancelSBOMExport</a>	Grants permission to cancel the generation of an SBOM report	Write			
<a href="#">CreateCISScanConfiguration</a>	Grants permission to create and define the settings for a CIS scan configuration	Write	<a href="#">CIS Scan Configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCodeSecurityIntegration</a>	Grants permission to create a code security integration with a source code repository provider	Write	<a href="#">CodeSecurityIntegration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCodeSecurityScanConfiguration</a>	Grants permission to create a scan configuration for code security scanning	Write	<a href="#">CodeSecurityScanConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFilter</a>	Grants permission to create and define the settings for a findings filter	Write	<a href="#">Filter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFindingsReport</a>	Grants permission to request the generation of a findings report	Write			
<a href="#">CreateSBOMExport</a>	Grants permission to request the generation of an SBOM report	Write			
<a href="#">DeleteCISScanConfiguration</a>	Grants permission to delete a CIS scan configuration	Write	<a href="#">CIS Scan Configuration*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCodeSecurityIntegration</a>	Grants permission to delete a code security integration	Write	<a href="#">Code Security Integration*</a>		
<a href="#">DeleteCodeSecurityScanConfiguration</a>	Grants permission to delete a code security scan configuration	Write	<a href="#">Code Security Scan Configuration*</a>		
<a href="#">DeleteFilter</a>	Grants permission to delete a findings filter	Write	<a href="#">Filter*</a>		
<a href="#">DescribeOrganizationConfiguration</a>	Grants permission to retrieve information about the Amazon Inspector configuration settings for an AWS organization	Read			
<a href="#">Disable</a>	Grants permission to disable an Amazon Inspector account	Write			
<a href="#">DisableDelegatedAdminAccount</a>	Grants permission to disable an account as the delegated Amazon Inspector administrator account for an AWS organization	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateMember</a>	Grants permission to an Amazon Inspector administrator account to disassociate from an Inspector member account	Write			
<a href="#">Enable</a>	Grants permission to enable and specify the configuration settings for a new Amazon Inspector account	Write			
<a href="#">EnableDelegatedAdminAccount</a>	Grants permission to enable an account as the delegated Amazon Inspector administrator account for an AWS organization	Write			
<a href="#">GetCisScanReport</a>	Grants permission to retrieve a report containing information about completed CIS scans	Read			
<a href="#">GetCisScanResultDetails</a>	Grants permission to retrieve information about all details pertaining to one CIS scan and one targeted resource	List			
<a href="#">GetClustersForImage</a>	Grants permission to get cluster information for a given a continuously scanned amazon Ecr image	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCodeSecurityIntegration</a>	Grants permission to retrieve information about a code security integration	Read			
<a href="#">GetCodeSecurityScan</a>	Grants permission to retrieve information about a specific code security scan	Read			
<a href="#">GetCodeSecurityScanConfiguration</a>	Grants permission to retrieve information about a code security scan configuration	Read			
<a href="#">GetConfiguration</a>	Grants permission to retrieve information about the Amazon Inspector configuration settings for an AWS account	Read			
<a href="#">GetDelegatedAdministratorAccount</a>	Grants permission to retrieve information about the Amazon Inspector administrator account for an account	Read			
<a href="#">GetEc2DeepInspectionConfiguration</a>	Grants permission to retrieve ec2 deep inspection configuration for standalone accounts, delegated administrator and member account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEncryptionKey</a>	Grants permission to retrieve information about the KMS key used to encrypt code snippets with	Read			
<a href="#">GetFindingsReportStatus</a>	Grants permission to retrieve status for a requested findings report	Read			
<a href="#">GetMember</a>	Grants permission to retrieve information about an account that's associated with an Amazon Inspector administrator account	Read			
<a href="#">GetSbomExport</a>	Grants permission to retrieve a requested SBOM report	Read			
<a href="#">ListAccountPermissions</a>	Grants permission to retrieve feature configuration permissions associated with an Amazon Inspector account within an organization	List			
<a href="#">ListCisScanConfigurations</a>	Grants permission to retrieve information about all CIS scan configurations	List			
<a href="#">ListCisScanResultsAggregatedByChecks</a>	Grants permission to retrieve information about all checks pertaining to one CIS scan	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCisScanResultsAggregateByTargetResource</a>	Grants permission to retrieve information about all resources pertaining to one CIS scan	List			
<a href="#">ListCisScans</a>	Grants permission to retrieve information about completed CIS scans	List			
<a href="#">ListCodeSecurityIntegrations</a>	Grants permission to list all code security integrations in your account	List			
<a href="#">ListCodeScanConfigurationAssociations</a>	Grants permission to list the associations between code repositories and Amazon Inspector code security scan configurations	List			
<a href="#">ListCodeSecurityScanConfigurations</a>	Grants permission to list all code security scan configurations in your account	List			
<a href="#">ListCoverage</a>	Grants permission to retrieve the types of statistics Amazon Inspector can generate for resources Inspector monitors	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCoverageStatistics</a>	Grants permission to retrieve statistical data and other information about the resources Amazon Inspector monitors	List			
<a href="#">ListDelegatedAdminAccounts</a>	Grants permission to retrieve information about the delegated Amazon Inspector administrator account for an AWS organization	List			
<a href="#">ListFilters</a>	Grants permission to retrieve information about all findings filters	List			
<a href="#">ListFindingsAggregations</a>	Grants permission to retrieve statistical data and other information about Amazon Inspector findings	List			
<a href="#">ListFindings</a>	Grants permission to retrieve a subset of information about one or more findings	List			
<a href="#">ListMembers</a>	Grants permission to retrieve information about the Amazon Inspector member accounts that are associated with an Inspector administrator account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to retrieve the tags for an Amazon Inspector resource	Read			
<a href="#">ListUsageTotals</a>	Grants permission to retrieve aggregated usage data for an account	List			
<a href="#">ResetEncryptionKey</a>	Grants permission to let a customer reset to use an Amazon-owned KMS key to encrypt code snippets with	Write			
<a href="#">SearchVulnerabilities</a>	Grants permission to list Amazon Inspector coverage details for a specific vulnerability	Read			
<a href="#">SendCisSessionHealth</a>	Grants permission to send CIS health for a CIS scan	Write			
<a href="#">SendCisSessionTelemetry</a>	Grants permission to send CIS telemetry for a CIS scan	Write			
<a href="#">StartCisSession</a>	Grants permission to start a CIS scan session	Write			
<a href="#">StartCodeSecurityScan</a>	Grants permission to initiate a code security scan on a specified repository	Write			
<a href="#">StopCisSession</a>	Grants permission to stop a CIS scan session	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add or update the tags for an Amazon Inspector resource	Tagging	<a href="#">CIS Scan Configuration</a>		
			<a href="#">Code Security Integration</a>		
			<a href="#">Code Security Scan Configuration</a>		
			<a href="#">Filter</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an Amazon Inspector resource	Tagging	<a href="#">CIS Scan Configuration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Code Security Integration</a>		
			<a href="#">Code Security Scan Configuration</a>		
			<a href="#">Filter</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCisScanConfiguration</a>	Grants permission to update the settings for a CIS scan configuration	Write	<a href="#">CIS Scan Configuration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCodeSecurityIntegration</a>	Grants permission to update an existing code security integration	Write	<a href="#">Code Security Integration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateCodeSecurityScanConfiguration</a>	Grants permission to update an existing code security scan configuration	Write	<a href="#">Code Security Scan Configuration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateConfiguration</a>	Grants permission to update information about the Amazon Inspector configuration settings for an AWS account	Write			
<a href="#">UpdateEc2DeepInspectionConfiguration</a>	Grants permission to update ec2 deep inspection configuration by delegated administrator, member and standalone account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEncryptionKey</a>	Grants permission to let a customer use a KMS key to encrypt code snippets with	Write			
<a href="#">UpdateFilter</a>	Grants permission to update the settings for a findings filter	Write	<a href="#">Filter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateOrgEc2DeepInspectionConfiguration</a>	Grants permission to update ec2 deep inspection configuration by delegated administrator for its associated member accounts	Write			
<a href="#">UpdateOrganizationConfiguration</a>	Grants permission to update Amazon Inspector configuration settings for an AWS organization	Write			

## Resource types defined by Amazon Inspector2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Filter</a>	arn:\${Partition}:inspector2:\${Region}:\${Account}:owner/\${OwnerId}/filter/\${FilterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Finding</a>	arn:\${Partition}:inspector2:\${Region}:\${Account}:finding/\${FindingId}	
<a href="#">CIS Scan Configuration</a>	arn:\${Partition}:inspector2:\${Region}:\${Account}:owner/\${OwnerId}/cis-configuration/\${CISScanConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Code Security Scan Configuration</a>	arn:\${Partition}:inspector2:\${Region}:\${Account}:owner/\${OwnerId}/codesecurity-configuration/\${CodeSecurityScanConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Code Security Integration</a>	arn:\${Partition}:inspector2:\${Region}:\${Account}:codesecurity-integration/\${CodeSecurityIntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Inspector2

Amazon Inspector2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Inspector2 Telemetry Channel

Amazon Inspector2 Telemetry Channel (service prefix: `inspector2-telemetry`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Inspector2 Telemetry Channel](#)
- [Resource types defined by Amazon Inspector2 Telemetry Channel](#)
- [Condition keys for Amazon Inspector2 Telemetry Channel](#)

## Actions defined by Amazon Inspector2 Telemetry Channel

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.



However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">NotifyHeartbeat</a>	Grants permission to notify heartbeat for an active telemetry session	Write			
<a href="#">SendTelemetry</a>	Grants permission to send telemetry for an active telemetry session	Write			
<a href="#">StartSession</a>	Grants permission to start a telemetry session	Write			
<a href="#">StopSession</a>	Grants permission to stop a telemetry session	Write			

## Resource types defined by Amazon Inspector2 Telemetry Channel

Amazon Inspector2 Telemetry Channel does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Inspector2 Telemetry Channel, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Inspector2 Telemetry Channel

Inspector2Telemetry has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon InspectorScan

Amazon InspectorScan (service prefix: `inspector-scan`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon InspectorScan](#)
- [Resource types defined by Amazon InspectorScan](#)
- [Condition keys for Amazon InspectorScan](#)

## Actions defined by Amazon InspectorScan

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ScanSbom</a>	Grants permission to scan the customer provided SBOM and return vulnerabilities detected within	Read			

## Resource types defined by Amazon InspectorScan

Amazon InspectorScan does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon InspectorScan, specify "Resource": "\*" in your policy.

## Condition keys for Amazon InspectorScan

InspectorScan has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

# Actions, resources, and condition keys for Amazon Interactive Video Service

Amazon Interactive Video Service (service prefix: `ivs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Interactive Video Service](#)
- [Resource types defined by Amazon Interactive Video Service](#)
- [Condition keys for Amazon Interactive Video Service](#)

## Actions defined by Amazon Interactive Video Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetChannel</a>	Grants permission to get multiple channels simultaneously by channel ARN	Read	<a href="#">Channel*</a>		
<a href="#">BatchGetStreamKey</a>	Grants permission to get multiple stream keys simultaneously by stream key ARN	Read	<a href="#">Stream-Key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchStartViewerSessionRevocation</a>	Grants permission to perform StartViewerSessionRevocation on multiple channel ARN and viewer ID pairs simultaneously	Write	<a href="#">Channel*</a>		
<a href="#">CreateChannel</a>	Grants permission to create a new channel and an associated stream key	Write	<a href="#">Channel*</a>		
			<a href="#">Stream-Key*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateEncoderConfiguration</a>	Grants permission to create a new encoder configuration	Write	<a href="#">Encoder-Configuration*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIngestConfiguration</a>	Grants permission to create a new ingest configuration	Write	<a href="#">Ingest-Configuration*</a>		
<a href="#">CreateParticipantToken</a>	Grants permission to create a participant token	Write	<a href="#">Stage*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePlaybackRestrictionPolicy</a>	Grants permission to create a playback restriction policy	Write	<a href="#">Playback-Restriction-Policy*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRecordingConfiguration</a>	Grants permission to create a new recording configuration	Write	<a href="#">Recording-Configuration*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStage</a>	Grants permission to create a stage	Write	<a href="#">Stage*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStorageConfiguration</a>	Grants permission to create a new storage configuration	Write	<a href="#">Storage-Configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStreamKey</a>	Grants permission to create a stream key	Write	<a href="#">Stream-Key*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteChannel</a>	Grants permission to delete a channel and channel's stream keys	Write	<a href="#">Channel*</a> <a href="#">Stream-Key*</a>		
<a href="#">DeleteEncoderConfiguration</a>	Grants permission to delete an encoder configuration for the specified ARN	Write	<a href="#">Encoder-Configuration*</a>		
<a href="#">DeleteIngestConfiguration</a>	Grants permission to delete an ingest configuration for the specified ARN	Write	<a href="#">Ingest-Configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePlaybackKeyPair</a>	Grants permission to delete the playback key pair for a specified ARN	Write	<a href="#">Playback-Key-Pair*</a>		
<a href="#">DeletePlaybackRestrictionPolicy</a>	Grants permission to delete the playback restriction policy for a specified ARN	Write	<a href="#">Playback-Restriction-Policy*</a>		
<a href="#">DeletePublicKey</a>	Grants permission to delete the public key for the specified ARN	Write	<a href="#">Public-Key*</a>		
<a href="#">DeleteRecordingConfiguration</a>	Grants permission to delete a recording configuration for the specified ARN	Write	<a href="#">Recording-Configuration*</a>		
<a href="#">DeleteStage</a>	Grants permission to delete the stage for a specified ARN	Write	<a href="#">Stage*</a>		
<a href="#">DeleteStorageConfiguration</a>	Grants permission to delete an storage configuration for the specified ARN	Write	<a href="#">Storage-Configuration*</a>		
<a href="#">DeleteStreamKey</a>	Grants permission to delete the stream key for a specified ARN	Write	<a href="#">Stream-Key*</a>		
<a href="#">DisconnectParticipant</a>	Grants permission to disconnect a participant from for the specified stage ARN	Write	<a href="#">Stage*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetChannel</a>	Grants permission to get the channel configuration for a specified channel ARN	Read	<a href="#">Channel*</a>		
<a href="#">GetComposition</a>	Grants permission to get the composition for the specified ARN	Read	<a href="#">Composition*</a>		
<a href="#">GetEncoderConfiguration</a>	Grants permission to get the encoder configuration for the specified ARN	Read	<a href="#">Encoder-Configuration*</a>		
<a href="#">GetIngestConfiguration</a>	Grants permission to get the ingest configuration for the specified ARN	Read	<a href="#">Ingest-Configuration*</a>		
<a href="#">GetParticipant</a>	Grants permission to get participant information for a specified stage ARN, session, and participant	Read	<a href="#">Stage*</a>		
<a href="#">GetPlaybackKeyPair</a>	Grants permission to get the playback keypair information for a specified ARN	Read	<a href="#">Playback-Key-Pair*</a>		
<a href="#">GetPlaybackRestrictionPolicy</a>	Grants permission to get the playback restriction policy for a specified ARN	Read	<a href="#">Playback-Restriction-Policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPublicKey</a>	Grants permission to get the public key for the specified ARN	Read	<a href="#">Public-Key*</a>		
<a href="#">GetRecordingConfiguration</a>	Grants permission to get the recording configuration for the specified ARN	Read	<a href="#">Recording-Configuration*</a>		
<a href="#">GetStage</a>	Grants permission to get stage information for a specified ARN	Read	<a href="#">Stage*</a>		
<a href="#">GetStageSession</a>	Grants permission to get stage session information for a specified stage ARN and session	Read	<a href="#">Stage*</a>		
<a href="#">GetStorageConfiguration</a>	Grants permission to get the storage configuration for the specified ARN	Read	<a href="#">Storage-Configuration*</a>		
<a href="#">GetStream</a>	Grants permission to get information about the active (live) stream on a specified channel	Read	<a href="#">Channel*</a>		
<a href="#">GetStreamKey</a>	Grants permission to get stream-key information for a specified ARN	Read	<a href="#">Stream-Key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetStreamSession</a>	Grants permission to get information about the stream session on a specified channel	Read	<a href="#">Channel*</a>		
<a href="#">ImportPlaybackKeyPair</a>	Grants permission to import the public key	Write	<a href="#">Playback-Key-Pair*</a>		
<a href="#">ImportPublicKey</a>	Grants permission to import a public key	Write	<a href="#">Public-Key*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">ListChannels</a>	Grants permission to get summary information about channels	List	<a href="#">Channel*</a>		
<a href="#">ListCompositions</a>	Grants permission to get summary information about compositions	List	<a href="#">Encoder-Configuration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Stage</a>		
<a href="#">ListEncoderConfigurations</a>	Grants permission to get summary information about encoder configurations	List			
<a href="#">ListIngestConfigurations</a>	Grants permission to get summary information about ingest configurations	List			
<a href="#">ListParticipantEvents</a>	Grants permission to list participant events for a specified stage ARN, session, and participant	List	<a href="#">Stage*</a>		
<a href="#">ListParticipantReplicas</a>	Grants permission to get summary information about participant replicas	List	<a href="#">Stage*</a>		
<a href="#">ListParticipants</a>	Grants permission to list participants for a specified stage ARN and session	List	<a href="#">Stage*</a>		
<a href="#">ListPlaybackKeyPairs</a>	Grants permission to get summary information about playback key pairs	List	<a href="#">Playback-Key-Pair*</a>		
<a href="#">ListPlaybackRestrictionPolicies</a>	Grants permission to get summary information about playback restriction policies	List			
<a href="#">ListPublicKeys</a>	Grants permission to get summary information about public keys	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecordingConfigurations</a>	Grants permission to get summary information about recording configurations	List	<a href="#">Recording-Configuration*</a>		
<a href="#">ListStageSessions</a>	Grants permission to list stage sessions for a specified stage ARN	List	<a href="#">Stage*</a>		
<a href="#">ListStages</a>	Grants permission to get summary information about stages	List	<a href="#">Stage*</a>		
<a href="#">ListStorageConfigurations</a>	Grants permission to get summary information about storage configurations	List			
<a href="#">ListStreamKeys</a>	Grants permission to get summary information about stream keys	List	<a href="#">Channel*</a> <a href="#">Stream-Key*</a>		
<a href="#">ListStreamSessions</a>	Grants permission to get summary information about streams sessions on a specified channel	List	<a href="#">Channel*</a>		
<a href="#">ListStreams</a>	Grants permission to get summary information about live streams	List	<a href="#">Channel*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to get information about the tags for a specified ARN	Read	<a href="#">Channel</a> <a href="#">Composition</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Encoder-Configuration</a>		
			<a href="#">Ingest-Configuration</a>		
			<a href="#">Playback-Key-Pair</a>		
			<a href="#">Playback-Restriction-Policy</a>		
			<a href="#">Public-Key</a>		
			<a href="#">Recording-Configuration</a>		
			<a href="#">Stage</a>		
			<a href="#">Storage-Configuration</a>		
			<a href="#">Stream-Key</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutMetadata</a>	Grants permission to insert metadata into an RTMP stream for a specified channel	Write	<a href="#">Channel*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">StartComposition</a>	Grants permission to start a new composition	Write	<a href="#">Encoder-Configuration*</a> <a href="#">Stage*</a> <a href="#">Channel</a> <a href="#">Storage-Configuration</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartParticipantReplication</a>	Grants permission to start a new participant replication	Write	<a href="#">Stage*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">StartViewerSessionRevocation</a>	Grants permission to start the process of revoking the viewer session associated with a specified channel ARN and viewer ID	Write	<a href="#">Channel*</a>		
<a href="#">StopComposition</a>	Grants permission to stop the composition for the specified ARN	Write	<a href="#">Composition*</a>		
<a href="#">StopParticipantReplication</a>	Grants permission to stop the participant replication for the specified ARN	Write	<a href="#">Stage*</a>		
<a href="#">StopStream</a>	Grants permission to disconnect a streamer on a specified channel	Write	<a href="#">Channel*</a>		
<a href="#">TagResource</a>	Grants permission to add or update tags for a resource with a specified ARN	Tagging	<a href="#">Channel</a> <a href="#">Composition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Encoder-Configuration</a>		
			<a href="#">Ingest-Configuration</a>		
			<a href="#">Playback-Key-Pair</a>		
			<a href="#">Playback-Restriction-Policy</a>		
			<a href="#">Public-Key</a>		
			<a href="#">Recording-Configuration</a>		
			<a href="#">Stage</a>		
			<a href="#">Storage-Configuration</a>		
			<a href="#">Stream-Key</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags for a resource with a specified ARN	Tagging	<a href="#">Channel</a> <a href="#">Composition</a> <a href="#">Encoder-Configuration</a> <a href="#">Ingest-Configuration</a> <a href="#">Playback-Key-Pair</a> <a href="#">Playback-Restriction-Policy</a> <a href="#">Public-Key</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Recording-Configuration</a>		
			<a href="#">Stage</a>		
			<a href="#">Storage-Configuration</a>		
			<a href="#">Stream-Key</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateChannel</a>	Grants permission to update a channel's configuration	Write	<a href="#">Channel*</a>		
<a href="#">UpdateIngestConfiguration</a>	Grants permission to update ingest configuration for a specified ARN	Write	<a href="#">Ingest-Configuration*</a>		
<a href="#">UpdatePlaybackRestrictionPolicy</a>	Grants permission to update a playback restriction policy for a specified ARN	Write	<a href="#">Playback-Restriction-Policy*</a>		
<a href="#">UpdateStage</a>	Grants permission to update a stage's configuration	Write	<a href="#">Stage*</a>		

## Resource types defined by Amazon Interactive Video Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Channel</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:channel/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Stream-Key</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:stream-key/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Playback-Key-Pair</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:playback-key/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Playback-Restriction-Policy</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:playback-restriction-policy/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Recording-Configuration</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:recording-configuration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Stage</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:stage/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Composition</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:composition/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Encoder-Configuration</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:encoder-configuration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Storage-Configuration</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:storage-configuration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Public-Key</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:public-key/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Ingest-Configuration</a>	arn:\${Partition}:ivs:\${Region}:\${Account}:ingest-configuration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Interactive Video Service

Amazon Interactive Video Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags associated with the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString



# Actions, resources, and condition keys for Amazon Interactive Video Service Chat

Amazon Interactive Video Service Chat (service prefix: `ivschat`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Interactive Video Service Chat](#)
- [Resource types defined by Amazon Interactive Video Service Chat](#)
- [Condition keys for Amazon Interactive Video Service Chat](#)

## Actions defined by Amazon Interactive Video Service Chat

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateChatToken</a>	Grants permission to create an encrypted token that is used to establish an individual WebSocket connection to a room	Write	<a href="#">Room*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLoggingConfiguration</a>	Grants permission to create a logging configuration that allows clients to record room messages	Write	<a href="#">Logging-Configuration*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRoom</a>	Grants permission to create a room that allows clients to connect and pass messages	Write	<a href="#">Room*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteLoggingConfiguration</a>	Grants permission to delete the logging configuration for a specified logging configuration ARN	Write	<a href="#">Logging-Configuration*</a>		
<a href="#">DeleteMessage</a>	Grants permission to send an event to a specific room which directs clients to delete a specific message	Write	<a href="#">Room*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRoom</a>	Grants permission to delete the room for a specified room ARN	Write	<a href="#">Room*</a>		
<a href="#">DisconnectUser</a>	Grants permission to disconnect all connections using a specified user ID from a room	Write	<a href="#">Room*</a>		
<a href="#">GetLoggingConfiguration</a>	Grants permission to get the logging configuration for a specified logging configuration ARN	Read	<a href="#">Logging-Configuration*</a>		
<a href="#">GetRoom</a>	Grants permission to get the room configuration for a specified room ARN	Read	<a href="#">Room*</a>		
<a href="#">ListLoggingConfigurations</a>	Grants permission to get summary information about logging configurations	List	<a href="#">Logging-Configuration*</a>		
<a href="#">ListRooms</a>	Grants permission to get summary information about rooms	List	<a href="#">Room*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to get information about the tags for a specified ARN	Read	<a href="#">Room</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">SendEvent</a>	Grants permission to send an event to a room	Write	<a href="#">Room*</a>		
<a href="#">TagResource</a>	Grants permission to add or update tags for a resource with a specified ARN	Tagging	<a href="#">Logging-Configuration</a>		
			<a href="#">Room</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags for a resource with a specified ARN	Tagging	<a href="#">Logging-Configuration</a>		
			<a href="#">Room</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateLoggingConfiguration</a>	Grants permission to update the logging configuration for a specified logging configuration ARN	Write	<a href="#">Logging-Configuration*</a>		
<a href="#">UpdateRoom</a>	Grants permission to update the room configuration for a specified room ARN	Write	<a href="#">Room*</a>		

## Resource types defined by Amazon Interactive Video Service Chat

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Room</a>	arn:\${Partition}:ivschat:\${Region}:\${Account}:room/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Logging-Configuration</a>	arn:\${Partition}:ivschat:\${Region}:\${Account}:logging-configuration/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Interactive Video Service Chat

Amazon Interactive Video Service Chat defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags associated with the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Interconnect

AWS Interconnect (service prefix: `interconnect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Interconnect](#)
- [Resource types defined by AWS Interconnect](#)
- [Condition keys for AWS Interconnect](#)

## Actions defined by AWS Interconnect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the



Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptConnectionProposal</a>	Grants permission to accept a connection proposal generated elsewhere	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConnection</a>	Grants permission to create a connection	Write	<a href="#">connection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConnection</a>	Grants permission to delete an existing connection	Write	<a href="#">connection*</a>		
<a href="#">DescribeConnectionProposal</a>	Grants permission to describe a connection proposal	Read			
<a href="#">GetConnection</a>	Grants permission to describe a connection	Read	<a href="#">connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEnvironment</a>	Grants permission to describe an environment	Read	<a href="#">environment*</a>		
<a href="#">ListAttachPoints</a>	Grants permission to list available attach points	Read			
<a href="#">ListConnections</a>	Grants permission to list connections	List			
<a href="#">ListEnvironments</a>	Grants permission to list available environments	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags on a resource	Read			
<a href="#">TagResource</a>	Grants permission to apply tags to a resource	Tagging	<a href="#">connection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">connection*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnection</a>	Grants permission to update an existing connection	Write	<a href="#">connection*</a>		

## Resource types defined by AWS Interconnect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connection</a>	arn:\${Partition}:interconnect:\${Region}:\${Account}:connection/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">environment</a>	arn:\${Partition}:interconnect:\${Region}:\${Account}:environment/\${Id}	

## Condition keys for AWS Interconnect

AWS Interconnect defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Invoicing Service

AWS Invoicing Service (service prefix: `invoicing`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Invoicing Service](#)
- [Resource types defined by AWS Invoicing Service](#)
- [Condition keys for AWS Invoicing Service](#)

## Actions defined by AWS Invoicing Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetInvoiceProfile</a>	Grants permission to get invoice profile details for an account in your organization	Read			
<a href="#">CreateInvoiceUnit</a>	Grants permission to create an invoice unit for your organization	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateProcurementPortalPreference</a>	Grants permission to create a procurement portal preference	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteInvoiceUnit</a>	Grants permission to update an invoice unit for your organization	Write	<a href="#">invoice-unit*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteProcurementPortalPreference</a>	Grants permission to delete a procurement portal preference	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetInvoiceCorrection</a> [permission only]	Grants permission to get Invoice Correction	Read			
<a href="#">GetInvoiceEmailDeliveryPreferences</a> [permission only]	Grants permission to get Invoice Email Delivery Preferences	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInvoicePDF</a>	Grants permission to get downloadable Invoice document pre-signed URL with supplemental documents	Read			
<a href="#">GetInvoiceUnit</a>	Grants permission to get invoice units for your organization	Read	<a href="#">invoice-unit*</a>		
<a href="#">GetProcurementPortalPreference</a>	Grants permission to get a procurement portal preference	Read			
<a href="#">ListInvoiceCorrections</a> [permission only]	Grants permission to list Invoice Corrections	List			
<a href="#">ListInvoiceSummaries</a>	Grants permission to get Invoice summary information for your account or linked account	Read			
<a href="#">ListInvoiceUnits</a>	Grants permission to list invoice units for your organization	List			
<a href="#">ListProcurementPortalPreferences</a>	Grants permission to list procurement portal preferences for an account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">invoice-unit*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutInvoiceEmailDeliveryPreferences</a> [permission only]	Grants permission to put Invoice Email Delivery Preferences	Write			
<a href="#">PutProcurementPortalPreference</a>	Grants permission to update a procurement portal preference	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartInvoiceCorrection</a> [permission only]	Grants permission to start Invoice Correction	Write			
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">invoice-unit*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">invoice-unit*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateInvoiceUnit</a>	Grants permission to update an invoice unit for your organization	Write	<a href="#">invoice-unit*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProcurementPortalPreferenceStatus</a>	Grants permission to update the status for a procurement portal preference	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Invoicing Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">invoice-unit</a>	arn:\${Partition}:invoicing::\${Account}:invoice-unit/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">procurement-portal-preference</a>	arn:\${Partition}:invoicing::\${Account}:procurement-portal-preference/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Invoicing Service

AWS Invoicing Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS IoT

AWS IoT (service prefix: `iot`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT](#)
- [Resource types defined by AWS IoT](#)
- [Condition keys for AWS IoT](#)

## Actions defined by AWS IoT

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptCertificateTransfer</a>	Grants permission to accept a pending certificate transfer	Write	<a href="#">cert*</a>		
<a href="#">AddThingToBillingGroup</a>	Grants permission to add a thing to the specified billing group	Write	<a href="#">billinggroup*</a> <a href="#">thing*</a>		
<a href="#">AddThingToThingGroup</a>	Grants permission to add a thing to the specified thing group	Write	<a href="#">thing*</a> <a href="#">thinggroup*</a>		
<a href="#">AssociateSbomWithPackageVersion</a>	Grants permission to associate SBOM files to a package version	Write	<a href="#">packageversion*</a>		iot:GetIndexingConfiguration
<a href="#">AssociateTargetsWithJob</a>	Grants permission to associate a group with a continuous job	Write	<a href="#">job*</a> <a href="#">thing*</a> <a href="#">thinggroup*</a>		
<a href="#">AttachPolicy</a>	Grants permission to attach a policy to the specified target	Permissions management	<a href="#">cert</a> <a href="#">thinggroup*</a>		
<a href="#">AttachPrincipalPolicy</a>	Grants permission to attach the specified policy to the	Permissions	<a href="#">cert</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	specified principal (certificate or other credential)	management			
<a href="#">AttachSecurityProfile</a>	Grants permission to associate a Device Defender security profile with a thing group or with this account	Write	<a href="#">securityprofile*</a> <a href="#">custommetric</a> <a href="#">dimension</a> <a href="#">thinggroup</a>		
<a href="#">AttachThingPrincipal</a>	Grants permission to attach the specified principal to the specified thing	Write	<a href="#">cert</a>	<a href="#">iot:thingArn</a>	
<a href="#">CancelAuditMitigationActionsTask</a>	Grants permission to cancel a mitigation action task that is in progress	Write			
<a href="#">CancelAuditTask</a>	Grants permission to cancel an audit that is in progress. The audit can be either scheduled or on-demand	Write			
<a href="#">CancelCertificateTransfer</a>	Grants permission to cancel a pending transfer for the specified certificate	Write	<a href="#">cert*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelDetectMitigationActionsTask</a>	Grants permission to cancel a Device Defender ML Detect mitigation action	Write			
<a href="#">CancelJob</a>	Grants permission to cancel a job	Write	<a href="#">job*</a>		
<a href="#">CancelJobExecution</a>	Grants permission to cancel a job execution on a particular device	Write	<a href="#">job*</a> <a href="#">thing*</a>		
<a href="#">ClearDefaultAuthorizer</a>	Grants permission to clear the default authorizer	Write			
<a href="#">CloseTunnel</a>	Grants permission to close a tunnel	Write	<a href="#">tunnel*</a>	<a href="#">iot:Delete</a>	
<a href="#">ConfirmTopicRuleDestination</a>	Grants permission to confirm a http url TopicRuleDestinationDestination	Write	<a href="#">destination*</a>		
<a href="#">Connect</a>	Grants permission to connect as the specified client	Write	<a href="#">client*</a>		
<a href="#">CreateAuditSuppression</a>	Grants permission to create a Device Defender audit suppression	Write			
<a href="#">CreateAuthorizer</a>	Grants permission to create an authorizer	Write	<a href="#">authorizer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBillingGroup</a>	Grants permission to create a billing group	Write	<a href="#">billinggroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCertificateFromCsr</a>	Grants permission to create an X.509 certificate using the specified certificate signing request	Write			
<a href="#">CreateCertificateProvider</a>	Grants permission to create a certificate provider	Write	<a href="#">certificateprovider*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCommand</a>	Grants permission to create a command that can be used to start new executions against a device	Write	<a href="#">command*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCustomMetric</a>	Grants permission to create a custom metric for device side metric reporting and monitoring	Write	<a href="#">custommetric*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDimension</a>	Grants permission to define a dimension that can be used to limit the scope of a metric used in a security profile	Write	<a href="#">dimension*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDomainConfiguration</a>	Grants permission to create a domain configuration	Write	<a href="#">domainconfiguration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">iot:DomainName</a>	
<a href="#">CreateDynamicThingGroup</a>	Grants permission to create a Dynamic Thing Group	Write	<a href="#">dynamicthinggroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFleetMetric</a>	Grants permission to create a fleet metric	Write	<a href="#">fleetmetric*</a>		
			<a href="#">index*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateJob</a>	Grants permission to create a job	Write	<a href="#">job*</a>		
			<a href="#">thing*</a>		
			<a href="#">thinggroup*</a>		
			<a href="#">jobtemplate</a>		
			<a href="#">package</a>		
			<a href="#">packageversion</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateJobTemplate</a>	Grants permission to create a job template	Write	<a href="#">jobtemplate*</a> <a href="#">job</a> <a href="#">package</a> <a href="#">packageversion</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateKeysAndCertificates</a>	Grants permission to create a 2048 bit RSA key pair and issues an X.509 certificate using the issued public key	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMitigationAction</a>	Grants permission to define an action that can be applied to audit findings by using StartAuditMitigationActionsTask	Write	<a href="#">mitigationaction*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateOTAUpdate</a>	Grants permission to create an OTA update job	Write	<a href="#">otaupdate*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePackage</a>	Grants permission to create a software package that you can deploy to your devices	Write	<a href="#">package*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	<a href="#">iot:GetIndexingConfiguration</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePackageVersion</a>	Grants permission to create a version under the specified package	Write	<a href="#">package*</a>		iot:GetIndexingConfiguration  s3:GetObjectVersion
			<a href="#">packageversion*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreatePolicy</a>	Grants permission to create an AWS IoT policy	Permissions management	<a href="#">policy*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreatePolicyVersion</a>	Grants permission to create a new version of the specified AWS IoT policy	Permissions management	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProvisioningClaim</a>	Grants permission to create a provisioning claim	Write	<a href="#">provisioningtemplate*</a>		
<a href="#">CreateProvisioningTemplate</a>	Grants permission to create a fleet provisioning template	Write	<a href="#">provisioningtemplate*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">CreateProvisioningTemplateVersion</a>	Grants permission to create a new version of a fleet provisioning template	Write	<a href="#">provisioningtemplate*</a>		
<a href="#">CreateRoleAlias</a>	Grants permission to create a role alias	Write	<a href="#">rolealias*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateScheduledAudit</a>	Grants permission to create a scheduled audit that is run at a specified time interval	Write	<a href="#">scheduledaudit*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateSecurityProfile</a>	Grants permission to create a Device Defender security profile	Write	<a href="#">securityprofile*</a>		
			<a href="#">custommetric</a>		
			<a href="#">dimension</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateStream</a>	Grants permission to create a new AWS IoT stream	Write	<a href="#">stream*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateThing</a>	Grants permission to create a thing in the thing registry	Write	<a href="#">thing*</a>		
			<a href="#">billinggroup</a>		
<a href="#">CreateThingGroup</a>	Grants permission to create a thing group	Write	<a href="#">thinggroup*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateThingType</a>	Grants permission to create a new thing type	Write	<a href="#">thingtype*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTopicRule</a>	Grants permission to create a rule	Write	<a href="#">rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTopicRuleDestination</a>	Grants permission to create a TopicRuleDestination	Write			
<a href="#">DeleteAccountAuditConfiguration</a>	Grants permission to delete the audit configuration associated with the account	Write			
<a href="#">DeleteAuditSuppression</a>	Grants permission to delete a Device Defender audit suppression	Write			
<a href="#">DeleteAuthorizer</a>	Grants permission to delete the specified authorizer	Write	<a href="#">authorize*</a>		
<a href="#">DeleteBillingGroup</a>	Grants permission to delete the specified billing group	Write	<a href="#">billinggroup*</a>		
<a href="#">DeleteCACertificate</a>	Grants permission to delete a registered CA certificate	Write	<a href="#">cacert*</a>		
<a href="#">DeleteCertificate</a>	Grants permission to delete the specified certificate	Write	<a href="#">cert*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCertificateProvider</a>	Grants permission to delete a certificate provider	Write	<a href="#">certificateprovider*</a>		
<a href="#">DeleteCommand</a>	Grants permission to delete a command	Write	<a href="#">command*</a>		
<a href="#">DeleteCommandExecution</a>	Grants permission to delete a command execution	Write	<a href="#">client</a> <a href="#">thing</a>		
<a href="#">DeleteConnection</a>	Grants permission to disconnect the specified connection	Write	<a href="#">client*</a>		
<a href="#">DeleteCustomMetric</a>	Grants permission to delete the specified custom metric from your AWS account	Write	<a href="#">custommetric*</a>		
<a href="#">DeleteDimension</a>	Grants permission to remove the specified dimension from your AWS account	Write	<a href="#">dimension*</a>		
<a href="#">DeleteDomainConfiguration</a>	Grants permission to delete a domain configuration	Write	<a href="#">domainconfiguration*</a>		
<a href="#">DeleteDynamicThingGroup</a>	Grants permission to delete the specified Dynamic Thing Group	Write	<a href="#">dynamicthinggroup*</a>		
<a href="#">DeleteFleetMetric</a>	Grants permission to delete the specified fleet metric	Write	<a href="#">fleetmetric*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteJob</a>	Grants permission to delete a job and its related job executions	Write	<a href="#">job*</a>		
<a href="#">DeleteJobExecution</a>	Grants permission to delete a job execution	Write	<a href="#">job*</a> <a href="#">thing*</a>		
<a href="#">DeleteJobTemplate</a>	Grants permission to delete a job template	Write	<a href="#">jobtemplate*</a>		
<a href="#">DeleteMitigationAction</a>	Grants permission to delete a defined mitigation action from your AWS account	Write	<a href="#">mitigationaction*</a>		
<a href="#">DeleteOTAUpdate</a>	Grants permission to delete an OTA update job	Write	<a href="#">otaupdate*</a>		
<a href="#">DeletePackage</a>	Grants permission to delete a package	Write	<a href="#">package*</a>		
<a href="#">DeletePackageVersion</a>	Grants permission to delete a version of the specified package	Write	<a href="#">package*</a> <a href="#">packageversion*</a>		
<a href="#">DeletePolicy</a>	Grants permission to delete the specified policy	Permissions management	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePolicyVersion</a>	Grants permission to Delete the specified version of the specified policy	Permissions management	<a href="#">policy*</a>		
<a href="#">DeleteProvisioningTemplate</a>	Grants permission to delete a fleet provisioning template	Write	<a href="#">provisioningtemplate*</a>		
<a href="#">DeleteProvisioningTemplateVersion</a>	Grants permission to delete a fleet provisioning template version	Write	<a href="#">provisioningtemplate*</a>		
<a href="#">DeleteRegistrationCode</a>	Grants permission to delete a CA certificate registration code	Write			
<a href="#">DeleteRoleAlias</a>	Grants permission to delete the specified role alias	Write	<a href="#">rolealias*</a>		
<a href="#">DeleteScheduledAudit</a>	Grants permission to delete a scheduled audit	Write	<a href="#">scheduledaudit*</a>		
<a href="#">DeleteSecurityProfile</a>	Grants permission to delete a Device Defender security profile	Write	<a href="#">securityprofile*</a>		
			<a href="#">custommetric</a>		
			<a href="#">dimension</a>		
<a href="#">DeleteStream</a>	Grants permission to delete a specified stream	Write	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteThing</a>	Grants permission to delete the specified thing	Write	<a href="#">thing*</a>		
<a href="#">DeleteThingGroup</a>	Grants permission to delete the specified thing group	Write	<a href="#">thinggroup*</a>		
<a href="#">DeleteThingShadow</a>	Grants permission to delete the specified thing shadow	Write	<a href="#">thing*</a>		
<a href="#">DeleteThingType</a>	Grants permission to delete the specified thing type	Write	<a href="#">thingtype*</a>		
<a href="#">DeleteTopicRule</a>	Grants permission to delete the specified rule	Write	<a href="#">rule*</a>		
<a href="#">DeleteTopicRuleDestination</a>	Grants permission to delete a TopicRuleDestination	Write	<a href="#">destination*</a>		
<a href="#">DeleteV2LoggingLevel</a>	Grants permission to delete the specified v2 logging level	Write			
<a href="#">DeprecateThingType</a>	Grants permission to deprecate the specified thing type	Write	<a href="#">thingtype*</a>		
<a href="#">DescribeAccountAuditConfiguration</a>	Grants permission to get information about audit configurations for the account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAuditFinding</a>	Grants permission to get information about a single audit finding. Properties include the reason for noncompliance, the severity of the issue, and when the audit that returned the finding was started	Read			
<a href="#">DescribeAuditMitigationActionsTask</a>	Grants permission to get information about an audit mitigation task that is used to apply mitigation actions to a set of audit findings	Read			
<a href="#">DescribeAuditSuppression</a>	Grants permission to get information about a Device Defender audit suppression	Read			
<a href="#">DescribeAuditTask</a>	Grants permission to get information about a Device Defender audit	Read			
<a href="#">DescribeAuthorizer</a>	Grants permission to describe an authorizer	Read	<a href="#">authorize</a> <a href="#">r*</a>		
<a href="#">DescribeBillingGroup</a>	Grants permission to get information about the specified billing group	Read	<a href="#">billinggroup*</a>		
<a href="#">DescribeCACertificate</a>	Grants permission to describe a registered CA certificate	Read	<a href="#">cacert*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCertificate</a>	Grants permission to get information about the specified certificate	Read	<a href="#">cert*</a>		
<a href="#">DescribeCertificateProvider</a>	Grants permission to describe a certificate provider	Read	<a href="#">certificateprovider*</a>		
<a href="#">DescribeCustomMetric</a>	Grants permission to describe a custom metric that is defined in your AWS account	Read	<a href="#">custommetric*</a>		
<a href="#">DescribeDefaultAuthorizer</a>	Grants permission to describe the default authorizer	Read			
<a href="#">DescribeDetectMitigationActionsTask</a>	Grants permission to describe a Device Defender ML Detect mitigation action	Read			
<a href="#">DescribeDimension</a>	Grants permission to get details about a dimension that is defined in your AWS account	Read	<a href="#">dimension*</a>		
<a href="#">DescribeDomainConfiguration</a>	Grants permission to get information about the domain configuration	Read	<a href="#">domainconfiguration*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEncryptionConfiguration</a>	Grants permission to describe the encryption configuration for the account	Read			
<a href="#">DescribeEndpoint</a>	Grants permission to get a unique endpoint specific to the AWS account making the call	Read			
<a href="#">DescribeEventConfigurations</a>	Grants permission to get account event configurations	Read			
<a href="#">DescribeFleetMetric</a>	Grants permission to get information about the specified fleet metric	Read	<a href="#">fleetmetric*</a>		
<a href="#">DescribeIndex</a>	Grants permission to get information about the specified index	Read	<a href="#">index*</a>		
<a href="#">DescribeJob</a>	Grants permission to describe a job	Read	<a href="#">job*</a>		
<a href="#">DescribeJobExecution</a>	Grants permission to describe a job execution	Read	<a href="#">job</a> <a href="#">thing</a>		
<a href="#">DescribeJobTemplate</a>	Grants permission to describe a job template	Read	<a href="#">jobtemplate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeManagedJobTemplate</a>	Grants permission to describe a managed job template	Read	<a href="#">jobtemplate*</a>		
<a href="#">DescribeMitigationAction</a>	Grants permission to get information about a mitigation action	Read	<a href="#">mitigationaction*</a>		
<a href="#">DescribeProvisioningTemplate</a>	Grants permission to get information about a fleet provisioning template	Read	<a href="#">provisioningtemplate*</a>		
<a href="#">DescribeProvisioningTemplateVersion</a>	Grants permission to get information about a fleet provisioning template version	Read	<a href="#">provisioningtemplate*</a>		
<a href="#">DescribeRoleAlias</a>	Grants permission to describe a role alias	Read	<a href="#">rolealias*</a>		
<a href="#">DescribeScheduledAudit</a>	Grants permission to get information about a scheduled audit	Read	<a href="#">scheduledaudit*</a>		
<a href="#">DescribeSecurityProfile</a>	Grants permission to get information about a Device Defender security profile	Read	<a href="#">securityprofile*</a>		
<a href="#">DescribeStream</a>	Grants permission to get information about the specified stream	Read	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeThing</a>	Grants permission to get information about the specified thing	Read	<a href="#">thing*</a>		
<a href="#">DescribeThingGroup</a>	Grants permission to get information about the specified thing group	Read	<a href="#">thinggroup*</a>		
<a href="#">DescribeThingRegistrationTask</a>	Grants permission to get information about the bulk thing registration task	Read			
<a href="#">DescribeThingType</a>	Grants permission to get information about the specified thing type	Read	<a href="#">thingtype*</a>		
<a href="#">DescribeTunnel</a>	Grants permission to describe a tunnel	Read	<a href="#">tunnel*</a>		
<a href="#">DetachPolicy</a>	Grants permission to detach a policy from the specified target	Permissions management	<a href="#">cert</a> <a href="#">thinggroup</a>		
<a href="#">DetachPrincipalPolicy</a>	Grants permission to remove the specified policy from the specified certificate	Permissions management	<a href="#">cert</a>		
<a href="#">DetachSecurityProfile</a>	Grants permission to disassociate a Device Defender security profile from a thing group or from this account	Write	<a href="#">securityprofile*</a> <a href="#">custommetric</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">dimension</a>		
			<a href="#">thinggroup</a>		
<a href="#">DetachThingPrincipal</a>	Grants permission to detach the specified principal from the specified thing	Write	<a href="#">cert</a>	<a href="#">iot:thingArn</a>	
<a href="#">DisableTopicRule</a>	Grants permission to disable the specified rule	Write	<a href="#">rule*</a>		
<a href="#">DisassociateSbomFromPackageVersion</a>	Grants permission to disassociate SBOM files from a package version	Write	<a href="#">packageversion*</a>		
<a href="#">EnableTopicRule</a>	Grants permission to enable the specified rule	Write	<a href="#">rule*</a>		
<a href="#">GetBehaviorModelTrainingSummaries</a>	Grants permission to fetch a Device Defender's ML Detect Security Profile training model's status	List	<a href="#">securityprofile</a>		
<a href="#">GetBucketsAggregation</a>	Grants permission to get buckets aggregation for IoT fleet index	Read	<a href="#">index*</a>		
<a href="#">GetCardinality</a>	Grants permission to get cardinality for IoT fleet index	Read	<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCommand</a>	Grants permission to get the information about the command	Read	<a href="#">command*</a>		
<a href="#">GetCommandExecution</a>	Grants permission to get the information of a command execution	Read	<a href="#">client</a> <a href="#">thing</a>		
<a href="#">GetEffectivePolicies</a>	Grants permission to get effective policies	Read	<a href="#">cert</a>		
<a href="#">GetIndexingConfiguration</a>	Grants permission to get current fleet indexing configuration	Read			
<a href="#">GetJobDocument</a>	Grants permission to get a job document	Read	<a href="#">job*</a>		
<a href="#">GetLoggingOptions</a>	Grants permission to get the logging options	Read			
<a href="#">GetOTAUpdate</a>	Grants permission to get the information about the OTA update job	Read	<a href="#">otaupdate*</a>		
<a href="#">GetPackage</a>	Grants permission to get the information about the package	Read	<a href="#">package*</a>		
<a href="#">GetPackageConfiguration</a>	Grants permission to get the package configuration of the account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPackageVersion</a>	Grants permission to get the version of the package	Read	<a href="#">package*</a> <a href="#">packageversion*</a>		
<a href="#">GetPercentiles</a>	Grants permission to get percentiles for IoT fleet index	Read	<a href="#">index*</a>		
<a href="#">GetPolicy</a>	Grants permission to get information about the specified policy with the policy document of the default version	Read	<a href="#">policy*</a>		
<a href="#">GetPolicyVersion</a>	Grants permission to get information about the specified policy version	Read	<a href="#">policy*</a>		
<a href="#">GetRegistrationCode</a>	Grants permission to get a registration code used to register a CA certificate with AWS IoT	Read			
<a href="#">GetRetainedMessage</a>	Grants permission to get the retained message on the specified topic	Read	<a href="#">topic*</a>		
<a href="#">GetStatistics</a>	Grants permission to get statistics for IoT fleet index	Read	<a href="#">index*</a>		
<a href="#">GetThingConnectivityData</a>	Grants permission to get the thing's connectivity data	Read	<a href="#">thing*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetThingShadow</a>	Grants permission to get the thing shadow	Read	<a href="#">thing*</a>		
<a href="#">GetTopicRule</a>	Grants permission to get information about the specified rule	Read	<a href="#">rule*</a>		
<a href="#">GetTopicRuleDestination</a>	Grants permission to get a TopicRuleDestination	Read	<a href="#">destination*</a>		
<a href="#">GetV2LoggingOptions</a>	Grants permission to get v2 logging options	Read			
<a href="#">ListActiveViolations</a>	Grants permission to list the active violations for a given Device Defender security profile or Thing	List	<a href="#">securityprofile</a> <a href="#">thing</a>		
<a href="#">ListAttachedPolicies</a>	Grants permission to list the policies attached to the specified thing group	List			
<a href="#">ListAuditFindings</a>	Grants permission to list the findings (results) of a Device Defender audit or of the audits performed during a specified time period	List			
<a href="#">ListAuditMitigationActionsExecutions</a>	Grants permission to get the status of audit mitigation action tasks that were executed	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAuditMitigationActionsTasks</a>	Grants permission to get a list of audit mitigation action tasks that match the specified filters	List			
<a href="#">ListAuditSuppressions</a>	Grants permission to list your Device Defender audit suppressions	List			
<a href="#">ListAuditTasks</a>	Grants permission to list the Device Defender audits that have been performed during a given time period	List			
<a href="#">ListAuthorizers</a>	Grants permission to list the authorizers registered in your account	List			
<a href="#">ListBillingGroups</a>	Grants permission to list all billing groups	List			
<a href="#">ListCACertificates</a>	Grants permission to list the CA certificates registered for your AWS account	List			
<a href="#">ListCertificateProviders</a>	Grants permission to list certificate providers in the account	List			
<a href="#">ListCertificates</a>	Grants permission to list your certificates	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCertificatesByCA</a>	Grants permission to list the device certificates signed by the specified CA certificate	List			
<a href="#">ListCommandExecutions</a>	Grants permission to list commands executions in the account	List	<a href="#">client</a> <a href="#">command</a> <a href="#">thing</a>		
<a href="#">ListCommands</a>	Grants permission to list commands in the account	List			
<a href="#">ListCustomMetrics</a>	Grants permission to list the custom metrics in your AWS account	List			
<a href="#">ListDetectionActionsExecutions</a>	Grants permission to lists mitigation actions executions for a Device Defender ML Detect Security Profile	List	<a href="#">thing</a>		
<a href="#">ListDetectionActionsTasks</a>	Grants permission to list Device Defender ML Detect mitigation actions tasks	List			
<a href="#">ListDimensions</a>	Grants permission to list the dimensions that are defined for your AWS account	List			
<a href="#">ListDomainConfigurations</a>	Grants permission to list the domain configuration created by your AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFleetMetrics</a>	Grants permission to list the fleet metrics in your account	List			
<a href="#">ListIndices</a>	Grants permission to list all indices for fleet index	List			
<a href="#">ListJobExecutionsForJob</a>	Grants permission to list the job executions for a job	List	<a href="#">job*</a>		
<a href="#">ListJobExecutionsForThing</a>	Grants permission to list the job executions for the specified thing	List	<a href="#">thing*</a>		
<a href="#">ListJobTemplates</a>	Grants permission to list job templates	List			
<a href="#">ListJobs</a>	Grants permission to list jobs	List			
<a href="#">ListManagedJobTemplates</a>	Grants permission to list managed job templates	List			
<a href="#">ListMetricValues</a>	Grants permissions to list the metric values for a thing based on the metricName, and dimension if specified	List	<a href="#">thing*</a>		
<a href="#">ListMitigationActions</a>	Grants permission to get a list of all mitigation actions that match the specified filter criteria	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListNamedShadowsForThing</a>	Grants permission to list all named shadows for a given thing	List	<a href="#">thing*</a>		
<a href="#">ListOTAUpdates</a>	Grants permission to list OTA update jobs in the account	List			
<a href="#">ListOutgoingCertificates</a>	Grants permission to list certificates that are being transferred but not yet accepted	List			
<a href="#">ListPackageVersions</a>	Grants permission to list versions for a package in the account	List			
<a href="#">ListPackages</a>	Grants permission to list packages in the account	List			
<a href="#">ListPolicies</a>	Grants permission to list your policies	List			
<a href="#">ListPolicyPrincipals</a>	Grants permission to list the principals associated with the specified policy	List			
<a href="#">ListPolicyVersions</a>	Grants permission to list the versions of the specified policy, and identifies the default version	List	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPrincipalPolicies</a>	Grants permission to list the policies attached to the specified principal. If you use an Amazon Cognito identity, the ID needs to be in Amazon Cognito Identity format	List			
<a href="#">ListPrincipalThings</a>	Grants permission to list the things associated with the specified principal	List	<a href="#">cert</a>		
<a href="#">ListPrincipalThingsV2</a>	Grants permission to list the things associated with the specified principal	List	<a href="#">cert</a>		
<a href="#">ListProvisioningTemplateVersions</a>	Grants permission to get a list of fleet provisioning template versions	List	<a href="#">provisioningtemplate*</a>		
<a href="#">ListProvisioningTemplates</a>	Grants permission to list the fleet provisioning templates in your AWS account	List			
<a href="#">ListRelatedResourcesForAuditFinding</a>	Grants permission to list related resources for a single audit finding	List			
<a href="#">ListRetainedMessages</a>	Grants permission to list the retained messages for your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRoleAliases</a>	Grants permission to list role aliases	List			
<a href="#">ListSbomValidationResults</a>	Grants permission to list SBOM validation results of a package version	List	<a href="#">packageversion*</a>		
<a href="#">ListScheduledAudits</a>	Grants permission to list all of your scheduled audits	List			
<a href="#">ListSecurityProfiles</a>	Grants permission to list the Device Defender security profiles you have created	List	<a href="#">custommetric</a>		
<a href="#">ListSecurityProfilesForTarget</a>	Grants permission to list the Device Defender security profiles attached to a target	List	<a href="#">thinggroup</a>		
<a href="#">ListStreams</a>	Grants permission to list the streams in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for a given resource	Read	<a href="#">authorize</a>		
			<a href="#">billinggroup</a>		
			<a href="#">cacert</a>		
			<a href="#">certificateprovider</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">command</a>		
			<a href="#">custommetric</a>		
			<a href="#">dimension</a>		
			<a href="#">domainconfiguration</a>		
			<a href="#">dynamicthinggroup</a>		
			<a href="#">fleetmetric</a>		
			<a href="#">job</a>		
			<a href="#">jobtemplate</a>		
			<a href="#">mitigationaction</a>		
			<a href="#">otaupdate</a>		
			<a href="#">policy</a>		
			<a href="#">provisioningtemplate</a>		
			<a href="#">rolealias</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rule</a>		
			<a href="#">scheduledaudit</a>		
			<a href="#">securityprofile</a>		
			<a href="#">stream</a>		
			<a href="#">thinggroup</a>		
			<a href="#">thingtype</a>		
<a href="#">ListTargetsForPolicy</a>	Grants permission to list targets for the specified policy	List	<a href="#">policy*</a>		
<a href="#">ListTargetsForSecurityProfile</a>	Grants permission to list the targets associated with a given Device Defender security profile	List	<a href="#">securityprofile*</a>		
<a href="#">ListThingGroups</a>	Grants permission to list all thing groups	List			
<a href="#">ListThingGroupsForThing</a>	Grants permission to list thing groups to which the specified thing belongs	List	<a href="#">thing*</a>		
<a href="#">ListThingPrincipals</a>	Grants permission to list the principals associated with the specified thing	List	<a href="#">thing*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListThingPrincipalsV2</a>	Grants permission to list the principals associated with the specified thing	List	<a href="#">thing*</a>		
<a href="#">ListThingRegistrationTaskReports</a>	Grants permission to list information about bulk thing registration tasks	List			
<a href="#">ListThingRegistrationTasks</a>	Grants permission to list bulk thing registration tasks	List			
<a href="#">ListThingTypes</a>	Grants permission to list all thing types	List			
<a href="#">ListThings</a>	Grants permission to list all things	List			
<a href="#">ListThingInBillingGroup</a>	Grants permission to list all things in the specified billing group	List	<a href="#">billinggroup*</a>		
<a href="#">ListThingInThingGroup</a>	Grants permission to list all things in the specified thing group	List	<a href="#">thinggroup*</a>		
<a href="#">ListTopicRuleDestinations</a>	Grants permission to list all TopicRuleDestinations	List			
<a href="#">ListTopicRules</a>	Grants permission to list the rules for the specific topic	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTunnels</a>	Grants permission to list tunnels	List			
<a href="#">ListV2LoggingLevels</a>	Grants permission to list the v2 logging levels	List			
<a href="#">ListViolationEvents</a>	Grants permission to list the Device Defender security profile violations discovered during the given time period	List	<a href="#">securityprofile</a> <a href="#">thing</a>		
<a href="#">OpenTunnel</a>	Grants permission to open a tunnel	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">iot:ThingGroupArn</a> <a href="#">iot:TunnelDestinationService</a>	
<a href="#">Publish</a>	Grants permission to publish to the specified topic	Write	<a href="#">topic*</a>		
<a href="#">PutVerificationStateOnViolation</a>	Grants permission to put verification state on a violation	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Receive</a>	Grants permission to receive from the specified topic	Write	<a href="#">topic*</a>		
<a href="#">RegisterCACertificate</a>	Grants permission to register a CA certificate with AWS IoT	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:PassRole
<a href="#">RegisterCertificate</a>	Grants permission to register a device certificate with AWS IoT	Write			
<a href="#">RegisterCertificateWithoutCA</a>	Grants permission to register a device certificate with AWS IoT without a registered CA (certificate authority)	Write			
<a href="#">RegisterThing</a>	Grants permission to register your thing	Write			
<a href="#">RejectCertificateTransfer</a>	Grants permission to reject a pending certificate transfer	Write	<a href="#">cert*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveThingFromBillingGroup</a>	Grants permission to remove thing from the specified billing group	Write	<a href="#">billinggroup*</a> <a href="#">thing*</a>		
<a href="#">RemoveThingFromThingGroup</a>	Grants permission to remove thing from the specified thing group	Write	<a href="#">thing*</a> <a href="#">thinggroup*</a>		
<a href="#">ReplaceTopicRule</a>	Grants permission to replace the specified rule	Write	<a href="#">rule*</a>		
<a href="#">RetainPublish</a>	Grants permission to publish a retained message to the specified topic	Write	<a href="#">topic*</a>		
<a href="#">RotateTunnelAccessToken</a>	Grants permission to rotate the access token of a tunnel	Write	<a href="#">tunnel*</a>	<a href="#">iot:ThingGroupArn</a> <a href="#">iot:TunnelDestinationService</a> <a href="#">iot:ClientMode</a>	
<a href="#">SearchIndex</a>	Grants permission to search IoT fleet index	Read	<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetDefaultAuthorizer</a>	Grants permission to set the default authorizer. This will be used if a websocket connection is made without specifying an authorizer	Permissions management	<a href="#">authorize</a> <a href="#">r*</a>		
<a href="#">SetDefaultPolicyVersion</a>	Grants permission to set the specified version of the specified policy as the policy's default (operative) version	Permissions management	<a href="#">policy*</a>		
<a href="#">SetLoggingOptions</a>	Grants permission to set the logging options	Write			
<a href="#">SetV2LoggingLevel</a>	Grants permission to set the v2 logging level	Write			
<a href="#">SetV2LoggingOptions</a>	Grants permission to set the v2 logging options	Write			
<a href="#">StartAuditMitigationActionsTask</a>	Grants permission to start a task that applies a set of mitigation actions to the specified target	Write			
<a href="#">StartCommandExecution</a>	Grants permission to start a new command execution	Write	<a href="#">command*</a>		
			<a href="#">client</a>		
			<a href="#">thing</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">iot:CommandExecutionParameterString/{CommandParameterName}</a>  <a href="#">iot:CommandExecutionParameterBoolean/{CommandParameterName}</a>  <a href="#">iot:CommandExecutionParameterNumber/{CommandParameterName}</a>	
<a href="#">StartDetectMitigationActionTask</a>	Grants permission to start a Device Defender ML Detect mitigation actions task	Write	<a href="#">securityprofile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartOnDemandAuditTask</a>	Grants permission to start an on-demand Device Defender audit	Write			
<a href="#">StartThingRegistrationTask</a>	Grants permission to start a bulk thing registration task	Write			
<a href="#">StopThingRegistrationTask</a>	Grants permission to stop a bulk thing registration task	Write			
<a href="#">Subscribe</a>	Grants permission to subscribe to the specified TopicFilter	Write	<a href="#">topicfilter*</a>		
<a href="#">TagResource</a>	Grants permission to tag a specified resource	Tagging	<a href="#">authorize</a>		
			<a href="#">r</a>		
			<a href="#">billinggroup</a>		
			<a href="#">cacert</a>		
			<a href="#">certificateprovider</a>		
			<a href="#">command</a>		
			<a href="#">custommetric</a>		
			<a href="#">dimension</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">domainconfiguration</a>		
			<a href="#">dynamicthinggroup</a>		
			<a href="#">fleetmetric</a>		
			<a href="#">job</a>		
			<a href="#">jobtemplate</a>		
			<a href="#">mitigationaction</a>		
			<a href="#">otaupdate</a>		
			<a href="#">package</a>		
			<a href="#">packageversion</a>		
			<a href="#">policy</a>		
			<a href="#">provisioningtemplate</a>		
			<a href="#">rolealias</a>		
			<a href="#">rule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">scheduledaudit</a>		
			<a href="#">securityprofile</a>		
			<a href="#">stream</a>		
			<a href="#">thinggroup</a>		
			<a href="#">thingtype</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TestAuthorization</a>	Grants permission to test the policies evaluation for group policies	Read	<a href="#">cert</a>		
<a href="#">TestInvokeAuthorizer</a>	Grants permission to test invoke the specified custom authorizer for testing purposes	Read	<a href="#">authorize*</a>		
<a href="#">TransferCertificate</a>	Grants permission to transfer the specified certificate to the specified AWS account	Write	<a href="#">cert*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to untag a specified resource	Tagging	<a href="#">authorize</a>		
			<a href="#">billinggroup</a>		
			<a href="#">cacert</a>		
			<a href="#">certificateprovider</a>		
			<a href="#">command</a>		
			<a href="#">custommetric</a>		
			<a href="#">dimension</a>		
			<a href="#">domainconfiguration</a>		
			<a href="#">dynamicthinggroup</a>		
			<a href="#">fleetmetric</a>		
			<a href="#">job</a>		
			<a href="#">jobtemplate</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mitigation</a>		
			<a href="#">otaupdate</a>		
			<a href="#">package</a>		
			<a href="#">packageversion</a>		
			<a href="#">policy</a>		
			<a href="#">provisioningtemplate</a>		
			<a href="#">rolealias</a>		
			<a href="#">rule</a>		
			<a href="#">scheduledaudit</a>		
			<a href="#">securityprofile</a>		
			<a href="#">stream</a>		
			<a href="#">thinggroup</a>		
			<a href="#">thingtype</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAccountAuditConfiguration</a>	Grants permission to configure or reconfigure the Device Defender audit settings for this account	Write			
<a href="#">UpdateAuditSuppression</a>	Grants permission to update a Device Defender audit suppression	Write			
<a href="#">UpdateAuthorizer</a>	Grants permission to update an authorizer	Write	<a href="#">authorize_r*</a>		
<a href="#">UpdateBillingGroup</a>	Grants permission to update information associated with the specified billing group	Write	<a href="#">billinggroup*</a>		
<a href="#">UpdateCACertificate</a>	Grants permission to update a registered CA certificate	Write	<a href="#">cacert*</a>		iam:PassRole
<a href="#">UpdateCertificate</a>	Grants permission to update the status of the specified certificate. This operation is idempotent	Write	<a href="#">cert*</a>		
<a href="#">UpdateCertificateProvider</a>	Grants permission to update a certificate provider	Write	<a href="#">certificateprovider*</a>		
<a href="#">UpdateCommand</a>	Grants permission to update a command	Write	<a href="#">command*</a>		
<a href="#">UpdateCustomMetric</a>	Grants permission to update the specified custom metric	Write	<a href="#">custommetric*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDimension</a>	Grants permission to update the definition for a dimension	Write	<a href="#">dimension*</a>		
<a href="#">UpdateDomainConfiguration</a>	Grants permission to update a domain configuration	Write	<a href="#">domainconfiguration*</a>		
<a href="#">UpdateDynamicThingGroup</a>	Grants permission to update a Dynamic Thing Group	Write	<a href="#">dynamicthinggroup*</a>		
<a href="#">UpdateEncryptionConfiguration</a>	Grants permission to update the encryption configuration for the account	Write			
<a href="#">UpdateEventConfigurations</a>	Grants permission to update event configurations	Write			
<a href="#">UpdateFleetMetric</a>	Grants permission to update a fleet metric	Write	<a href="#">fleetmetric*</a> <a href="#">index*</a>		
<a href="#">UpdateIndexingConfiguration</a>	Grants permission to update fleet indexing configuration	Write			
<a href="#">UpdateJob</a>	Grants permission to update a job	Write	<a href="#">job*</a>		
<a href="#">UpdateMitigationAction</a>	Grants permission to update the definition for the specified mitigation action	Write	<a href="#">mitigationaction*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePackage</a>	Grants permission to update a package	Write	<a href="#">package*</a>		iot:GetIndexingConfiguration
<a href="#">UpdatePackageConfiguration</a>	Grants permission to update the package configuration of the account	Write			iam:PassRole
<a href="#">UpdatePackageVersion</a>	Grants permission to update the version of the specified package	Write	<a href="#">package*</a>		iot:GetIndexingConfiguration s3:GetObjectVersion
			<a href="#">packageversion*</a>		
<a href="#">UpdateProvisioningTemplate</a>	Grants permission to update a fleet provisioning template	Write	<a href="#">provisioningtemplate*</a>		iam:PassRole
<a href="#">UpdateRoleAlias</a>	Grants permission to update the role alias	Write	<a href="#">rolealias*</a>		iam:PassRole
<a href="#">UpdateScheduledAudit</a>	Grants permission to update a scheduled audit, including what checks are performed and how often the audit takes place	Write	<a href="#">scheduledaudit*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSecurityProfile</a>	Grants permission to update a Device Defender security profile	Write	<a href="#">securityprofile*</a>		
			<a href="#">custommetric</a>		
			<a href="#">dimension</a>		
<a href="#">UpdateStream</a>	Grants permission to update the data for a stream	Write	<a href="#">stream*</a>		
<a href="#">UpdateThing</a>	Grants permission to update information associated with the specified thing	Write	<a href="#">thing*</a>		
<a href="#">UpdateThingGroup</a>	Grants permission to update information associated with the specified thing group	Write	<a href="#">thinggroup*</a>		
<a href="#">UpdateThingGroupsForThing</a>	Grants permission to update the thing groups to which the thing belongs	Write	<a href="#">thing*</a>		
			<a href="#">thinggroup</a>		
<a href="#">UpdateThingShadow</a>	Grants permission to update the thing shadow	Write	<a href="#">thing*</a>		
<a href="#">UpdateThingType</a>	Grants permission to update information associated with the specified thing type	Write	<a href="#">thingtype*</a>		
<a href="#">UpdateTopicRuleDestination</a>	Grants permission to update a TopicRuleDestination	Write	<a href="#">destination*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidateSecurityProfileBehaviors</a>	Grants permission to validate a Device Defender security profile behaviors specification	Read			

## Resource types defined by AWS IoT

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">client</a>	arn:\${Partition}:iot:\${Region}:\${Account}:client/\${ClientId}	
<a href="#">index</a>	arn:\${Partition}:iot:\${Region}:\${Account}:index/\${IndexName}	
<a href="#">fleetmetric</a>	arn:\${Partition}:iot:\${Region}:\${Account}:fleetmetric/\${FleetMetricName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">job</a>	arn:\${Partition}:iot:\${Region}:\${Account}:job/\${JobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">jobtemplate</a>	arn:\${Partition}:iot:\${Region}:\${Account}:jobtemplate/\${JobTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">tunnel</a>	arn:\${Partition}:iot:\${Region}:\${Account}:tunnel/\${TunnelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">thing</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thing/\${ThingName}	
<a href="#">thinggroup</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thinggroup/\${ThingGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">billinggroup</a>	arn:\${Partition}:iot:\${Region}:\${Account}:billinggroup/\${BillingGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dynamicthinggroup</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thinggroup/\${ThingGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">thingtype</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thingtype/\${ThingTypeName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">topic</a>	arn:\${Partition}:iot:\${Region}:\${Account}:topic/\${TopicName}	
<a href="#">topicfilter</a>	arn:\${Partition}:iot:\${Region}:\${Account}:topicfilter/\${TopicFilter}	
<a href="#">rolealias</a>	arn:\${Partition}:iot:\${Region}:\${Account}:rolealias/\${RoleAlias}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">authorizer</a>	arn:\${Partition}:iot:\${Region}:\${Account}:authorizer/\${AuthorizerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">policy</a>	arn:\${Partition}:iot:\${Region}:\${Account}:policy/\${PolicyName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cert</a>	arn:\${Partition}:iot:\${Region}:\${Account}:cert/\${Certificate}	



Resource types	ARN	Condition keys
<a href="#">cacert</a>	arn:\${Partition}:iot:\${Region}:\${Account}:cacert/\${CACertificate}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stream</a>	arn:\${Partition}:iot:\${Region}:\${Account}:stream/\${StreamId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">otaupdate</a>	arn:\${Partition}:iot:\${Region}:\${Account}:otaupdate/\${OtaUpdateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">scheduled audit</a>	arn:\${Partition}:iot:\${Region}:\${Account}:scheduledaudit/\${ScheduleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mitigationaction</a>	arn:\${Partition}:iot:\${Region}:\${Account}:mitigationaction/\${MitigationActionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">securityprofile</a>	arn:\${Partition}:iot:\${Region}:\${Account}:securityprofile/\${SecurityProfileName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custommetric</a>	arn:\${Partition}:iot:\${Region}:\${Account}:custommetric/\${MetricName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dimension</a>	arn:\${Partition}:iot:\${Region}:\${Account}:dimension/\${DimensionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule</a>	arn:\${Partition}:iot:\${Region}:\${Account}:rule/\${RuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">destination</a>	arn:\${Partition}:iot:\${Region}:\${Account}:ruledestination/\${DestinationType}/\${Uuid}	
<a href="#">provisioningtemplate</a>	arn:\${Partition}:iot:\${Region}:\${Account}:provisioningtemplate/\${ProvisioningTemplate}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">domainconfiguration</a>	arn:\${Partition}:iot:\${Region}:\${Account}:domainconfiguration/\${DomainConfigurationName}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">package</a>	arn:\${Partition}:iot:\${Region}:\${Account}:package/\${PackageName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">packageversion</a>	arn:\${Partition}:iot:\${Region}:\${Account}:package/\${PackageName}/version/\${VersionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">certificateprovider</a>	arn:\${Partition}:iot:\${Region}:\${Account}:certificateprovider/\${CertificateProviderName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">command</a>	arn:\${Partition}:iot:\${Region}:\${Account}:command/\${CommandId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT

AWS IoT defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key that is present in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key component of a tag associated to the IoT resource in the request	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys associated to the IoT resource in the request	ArrayOfString
<a href="#">iot:ClientMode</a>	Filters access by the mode of the client for IoT Tunnel	String
<a href="#">iot:CommandExecutionParameterBoolean/\${CommandParameterName}</a>	Filters access by the command parameter name and boolean value	Bool
<a href="#">iot:CommandExecutionParameterNumber/\${CommandParameterName}</a>	Filters access by the command parameter name and numeric value	Numeric
<a href="#">iot:CommandExecutionParameterString/\${CommandParameterName}</a>	Filters access by the command parameter name and string value	String
<a href="#">iot&gt;Delete</a>	Filters access by a flag indicating whether or not to also delete an IoT Tunnel immediately when making iot:Close Tunnel request	Bool
<a href="#">iot:DomainName</a>	Filters access by based on the domain name of an IoT DomainConfiguration	String

Condition keys	Description	Type
<a href="#">iot:ThingGroupArn</a>	Filters access by a list of IoT Thing Group ARNs that the destination IoT Thing belongs to for an IoT Tunnel	ArrayOfARN
<a href="#">iot:TunnelDestinationService</a>	Filters access by a list of destination services for an IoT Tunnel	ArrayOfString
<a href="#">iot:thingArn</a>	Filters access by the ARN of an IoT Thing	ARN

## Actions, resources, and condition keys for AWS IoT Analytics

AWS IoT Analytics (service prefix: `iotanalytics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Analytics](#)
- [Resource types defined by AWS IoT Analytics](#)
- [Condition keys for AWS IoT Analytics](#)

## Actions defined by AWS IoT Analytics


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchPutMessage</a>	Puts a batch of messages into the specified channel	Write	<a href="#">channel*</a>		
<a href="#">CancelPipelineReprocessing</a>	Cancels reprocessing for the specified pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">CreateChannel</a>	Creates a channel	Write	<a href="#">channel*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateDataset</a>	Creates a dataset	Write	<a href="#">dataset*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateDatasetContent</a>	Generates content from the specified dataset (by executing the dataset actions)	Write	<a href="#">dataset*</a>		
<a href="#">CreateDatastore</a>	Creates a datastore	Write	<a href="#">datastore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePipeline</a>	Creates a pipeline	Write	<a href="#">pipeline*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteChannel</a>	Deletes the specified channel	Write	<a href="#">channel*</a>		
<a href="#">DeleteDataset</a>	Deletes the specified dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteDatasetContent</a>	Deletes the content of the specified dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteDatastore</a>	Deletes the specified datastore	Write	<a href="#">datastore*</a>		
<a href="#">DeletePipeline</a>	Deletes the specified pipeline	Write	<a href="#">pipeline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeChannel</a>	Describes the specified channel	Read	<a href="#">channel*</a>		
<a href="#">DescribeDataset</a>	Describes the specified dataset	Read	<a href="#">dataset*</a>		
<a href="#">DescribeDatastore</a>	Describes the specified datastore	Read	<a href="#">datastore*</a>		
<a href="#">DescribeLoggingOptions</a>	Describes logging options for the account	Read			
<a href="#">DescribePipeline</a>	Describes the specified pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">GetDatasetContent</a>	Gets the content of the specified dataset	Read	<a href="#">dataset*</a>		
<a href="#">ListChannels</a>	Lists the channels for the account	List			
<a href="#">ListDatasetContents</a>	Lists information about dataset contents that have been created	List	<a href="#">dataset*</a>		
<a href="#">ListDatasets</a>	Lists the datasets for the account	List			
<a href="#">ListDatastores</a>	Lists the datastores for the account	List			
<a href="#">ListPipelines</a>	Lists the pipelines for the account	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Lists the tags (metadata) which you have assigned to the resource	Read	<a href="#">channel</a>		
			<a href="#">dataset</a>		
			<a href="#">datastore</a>		
			<a href="#">pipeline</a>		
<a href="#">PutLoggingOptions</a>	Puts logging options for the the account	Write			
<a href="#">RunPipelineActivity</a>	Runs the specified pipeline activity	Read			
<a href="#">SampleChannelData</a>	Samples the specified channel's data	Read	<a href="#">channel*</a>		
<a href="#">StartPipelineReprocessing</a>	Starts reprocessing for the specified pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">TagResource</a>	Adds to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource	Tagging	<a href="#">channel</a>		
			<a href="#">dataset</a>		
			<a href="#">datastore</a>		
			<a href="#">pipeline</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Removes the given tags (metadata) from the resource	Tagging	<a href="#">channel</a> <a href="#">dataset</a> <a href="#">datastore</a> <a href="#">pipeline</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateChannel</a>	Updates the specified channel	Write	<a href="#">channel*</a>		
<a href="#">UpdateDataset</a>	Updates the specified dataset	Write	<a href="#">dataset*</a>		
<a href="#">UpdateDatastore</a>	Updates the specified datastore	Write	<a href="#">datastore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePipeline</a>	Updates the specified pipeline	Write	<a href="#">pipeline*</a>		

## Resource types defined by AWS IoT Analytics

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">channel</a>	arn:\${Partition}:iotanalytics:\${Region}:\${Account}:channel/\${ChannelName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">iotanalytics:ResourceTag/\${TagKey}</a>
<a href="#">dataset</a>	arn:\${Partition}:iotanalytics:\${Region}:\${Account}:dataset/\${DatasetName}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">iotanalytics:ResourceTag/\${TagKey}</a>
<a href="#">datastore</a>	arn:\${Partition}:iotanalytics:\${Region}:\${Account}:datastore/\${DatastoreName}	<a href="#">aws:RequestTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">aws:TagKeys</a> <a href="#">iotanalytics:ResourceTag/{TagKey}</a>
<a href="#">pipeline</a>	arn:\${Partition}:iotanalytics:\${Region}:\${Account}:pipeline/\${PipelineName}	<a href="#">aws:RequestTag/{TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">iotanalytics:ResourceTag/{TagKey}</a>

## Condition keys for AWS IoT Analytics

AWS IoT Analytics defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/{TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:TagKeys</a>	Filters access based on the presence of tag keys in the request	ArrayOfString
<a href="#">iotanalytics:ResourceTag/{TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String

## Actions, resources, and condition keys for AWS IoT Core Device Advisor

AWS IoT Core Device Advisor (service prefix: `iotdeviceadvisor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Core Device Advisor](#)
- [Resource types defined by AWS IoT Core Device Advisor](#)
- [Condition keys for AWS IoT Core Device Advisor](#)

## Actions defined by AWS IoT Core Device Advisor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSuiteDefinition</a>	Grants permission to create a suite definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteSuiteDefinition</a>	Grants permission to delete a suite definition	Write	<a href="#">SuiteDefinition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEndpoint</a>	Grants permission to get a Device Advisor endpoint	Read			
<a href="#">GetSuiteDefinition</a>	Grants permission to get a suite definition	Read	<a href="#">Suitedefinition*</a>		
<a href="#">GetSuiteRun</a>	Grants permission to get a suite run	Read	<a href="#">Suiterun*</a>		
<a href="#">GetSuiteRunReport</a>	Grants permission to get the qualification report for a suite run	Read	<a href="#">Suiterun*</a>		
<a href="#">ListSuiteDefinitions</a>	Grants permission to list suite definitions	List			
<a href="#">ListSuiteRuns</a>	Grants permission to list suite runs	List	<a href="#">Suitedefinition*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags (metadata) assigned to a resource	Read	<a href="#">Suitedefinition</a> <a href="#">Suiterun</a>		
<a href="#">StartSuiteRun</a>	Grants permission to start a suite run	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopSuiteRun</a>	Grants permission to stop a suite run	Write	<a href="#">Suiterun*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add to or modify the tags of the given resource. Tags are metadata which can be used to manage a resource	Tagging	<a href="#">SuiteDefinition</a>		
			<a href="#">SuiteRun</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the given tags (metadata) from a resource	Tagging	<a href="#">SuiteDefinition</a>		
			<a href="#">SuiteRun</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateSuiteDefinition</a>	Grants permission to update a suite definition	Write	<a href="#">SuiteDefinition*</a>		

## Resource types defined by AWS IoT Core Device Advisor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">Suitedefinition</a>	arn:\${Partition}:iotdeviceadvisor:\${Region}:\${Account}:suitedefinition/\${SuiteDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Suiterun</a>	arn:\${Partition}:iotdeviceadvisor:\${Region}:\${Account}:suiterun/\${SuiteDefinitionId}/\${SuiteRunId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT Core Device Advisor

AWS IoT Core Device Advisor defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS IoT Device Tester

AWS IoT Device Tester (service prefix: `iot-device-tester`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS IoT Device Tester](#)
- [Resource types defined by AWS IoT Device Tester](#)
- [Condition keys for AWS IoT Device Tester](#)

## Actions defined by AWS IoT Device Tester

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CheckVersion</a>	Grants permission to IoT Device Tester to check if a given set of product, test suite and device tester version are compatible	Read			
<a href="#">DownloadTestSuite</a>	Grants permission to IoT Device Tester to download compatible test suite versions	Read			
<a href="#">LatestInfo</a>	Grants permission to IoT Device Tester to get informati	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	on on latest version of device tester available				
<a href="#">SendMetrics</a>	Grants permission to IoT Device Tester to send usage metrics on your behalf	Write			
<a href="#">Supported Version</a>	Grants permission to IoT Device Tester to get list of supported products and test suite versions	Read			

## Resource types defined by AWS IoT Device Tester

AWS IoT Device Tester does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS IoT Device Tester, specify "Resource": "\*" in your policy.

## Condition keys for AWS IoT Device Tester

IoT Device Tester has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS IoT Events

AWS IoT Events (service prefix: `iotevents`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS IoT Events](#)
- [Resource types defined by AWS IoT Events](#)
- [Condition keys for AWS IoT Events](#)

## Actions defined by AWS IoT Events

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchAcknowledgeAlarm</a>	Grants permission to send one or more acknowledge action requests to AWS IoT Events	Write	<a href="#">alarmModel*</a>		
<a href="#">BatchDeleteDetector</a>	Grants permission to delete a detector instance within the AWS IoT Events system	Write	<a href="#">detectorModel*</a>		
<a href="#">BatchDisableAlarm</a>	Grants permission to disable one or more alarm instances	Write	<a href="#">alarmModel*</a>		
<a href="#">BatchEnableAlarm</a>	Grants permission to enable one or more alarm instances	Write	<a href="#">alarmModel*</a>		
<a href="#">BatchPutMessage</a>	Grants permission to send a set of messages to the AWS IoT Events system	Write	<a href="#">input*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchResetAlarm</a>	Grants permission to reset one or more alarm instances	Write	<a href="#">alarmModel*</a>		
<a href="#">BatchSnoozeAlarm</a>	Grants permission to change one or more alarm instances to the snooze mode	Write	<a href="#">alarmModel*</a>		
<a href="#">BatchUpdateDetector</a>	Grants permission to update a detector instance within the AWS IoT Events system	Write	<a href="#">detectorModel*</a>		
<a href="#">CreateAlarmModel</a>	Grants permission to create an alarm model to monitor an AWS IoT Events input attribute or an AWS IoT SiteWise asset property	Write	<a href="#">alarmModel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDetectorModel</a>	Grants permission to create a detector model to monitor an AWS IoT Events input attribute	Write	<a href="#">detectorModel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInput</a>	Grants permission to create an Input in IoTEvents	Write	<a href="#">input*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAlarmModel</a>	Grants permission to delete an alarm model	Write	<a href="#">alarmModel*</a>		
<a href="#">DeleteDetectorModel</a>	Grants permission to delete a detector model	Write	<a href="#">detectorModel*</a>		
<a href="#">DeleteInput</a>	Grants permission to delete an input	Write	<a href="#">input*</a>		
<a href="#">DescribeAlarm</a>	Grants permission to retrieve information about an alarm instance	Read	<a href="#">alarmModel*</a>		
<a href="#">DescribeAlarmModel</a>	Grants permission to retrieve information about an alarm model	Read	<a href="#">alarmModel*</a>		
<a href="#">DescribeDetector</a>	Grants permission to retrieve information about a detector instance	Read	<a href="#">detectorModel*</a>		
<a href="#">DescribeDetectorModel</a>	Grants permission to retrieve information about a detector model	Read	<a href="#">detectorModel*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDetectorModelAnalysis</a>	Grants permission to retrieve the detector model analysis information	Read			
<a href="#">DescribeInput</a>	Grants permission to retrieve an information about Input	Read	<a href="#">input*</a>		
<a href="#">DescribeLoggingOptions</a>	Grants permission to retrieve the current settings of the AWS IoT Events logging options	Read			
<a href="#">GetDetectorModelAnalysisResults</a>	Grants permission to retrieve the detector model analysis results	Read			
<a href="#">ListAlarmModelVersions</a>	Grants permission to list all the versions of an alarm model	List	<a href="#">alarmModel*</a>		
<a href="#">ListAlarmModels</a>	Grants permission to list the alarm models that you created	List			
<a href="#">ListAlarms</a>	Grants permission to retrieve information about all alarm instances per alarmModel	List	<a href="#">alarmModel*</a>		
<a href="#">ListDetectorModelVersions</a>	Grants permission to list all the versions of a detector model	List	<a href="#">detectorModel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDetectorModels</a>	Grants permission to list the detector models that you created	List			
<a href="#">ListDetectors</a>	Grants permission to retrieve information about all detector instances per detectormodel	List	<a href="#">detectorModel*</a>		
<a href="#">ListInputRoutings</a>	Grants permission to list one or more input routings	List			
<a href="#">ListInputs</a>	Grants permission to lists the inputs you have created	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags (metadata) which you have assigned to the resource	Read	<a href="#">alarmModel</a>		
			<a href="#">detectorModel</a>		
			<a href="#">input</a>		
<a href="#">PutLoggingOptions</a>	Grants permission to set or update the AWS IoT Events logging options	Write			
<a href="#">StartDetectorModelAnalysis</a>	Grants permission to start the detector model analysis	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource	Tagging	<a href="#">alarmModel</a>		
			<a href="#">detectorModel</a>		
			<a href="#">input</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the given tags (metadata) from the resource	Tagging	<a href="#">alarmModel</a>		
			<a href="#">detectorModel</a>		
			<a href="#">input</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAlarmModel</a>	Grants permission to update an alarm model	Write	<a href="#">alarmModel*</a>		
<a href="#">UpdateDetectorModel</a>	Grants permission to update a detector model	Write	<a href="#">detectorModel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInput</a>	Grants permission to update an input	Write	<a href="#">input*</a>		
<a href="#">UpdateInputRouting</a>	Grants permission to update input routing	Write	<a href="#">input*</a>		

## Resource types defined by AWS IoT Events

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">detectorModel</a>	arn:\${Partition}:iotevents:\${Region}:\${Account}:detectorModel/\${DetectorModelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">alarmModel</a>	arn:\${Partition}:iotevents:\${Region}:\${Account}:alarmModel/\${AlarmModelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">input</a>	arn:\${Partition}:iotevents:\${Region}:\${Account}:input/\${InputName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT Events

AWS IoT Events defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions by the tag keys in the request	ArrayOfString
<a href="#">iotevents:keyValue</a>	Filters access by the instanceId (key-value) of the message	String

## Actions, resources, and condition keys for AWS IoT Fleet Hub for Device Management

AWS IoT Fleet Hub for Device Management (service prefix: `iotefleethub`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Fleet Hub for Device Management](#)

- [Resource types defined by AWS IoT Fleet Hub for Device Management](#)
- [Condition keys for AWS IoT Fleet Hub for Device Management](#)

## Actions defined by AWS IoT Fleet Hub for Device Management

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	sso:CreateManagedApplicationInstance  sso:DescribeRegisteredRegions
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">application*</a>		sso:DeleteManagedApplicationInstance
<a href="#">DescribeApplication</a>	Grants permission to describe an application	Read	<a href="#">application*</a>		
<a href="#">ListApplications</a>	Grants permission to list all applications	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for a resource	Read	<a href="#">application</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">application</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">application</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write	<a href="#">application*</a>		

## Resource types defined by AWS IoT Fleet Hub for Device Management

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:iotfleethub:\${Region}:\${Account}:application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT Fleet Hub for Device Management

AWS IoT Fleet Hub for Device Management defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions by the tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS IoT FleetWise

AWS IoT FleetWise (service prefix: `iotfleetwise`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS IoT FleetWise](#)
- [Resource types defined by AWS IoT FleetWise](#)
- [Condition keys for AWS IoT FleetWise](#)

## Actions defined by AWS IoT FleetWise

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate VehicleFleet</a>	Grants permission to associate the given vehicle to a fleet	Write	<a href="#">fleet*</a>		
			<a href="#">vehicle*</a>		
<a href="#">CreateCampaign</a>	Grants permission to create a campaign	Write	<a href="#">campaign*</a>		
			<a href="#">fleet*</a>		
			<a href="#">signalcatalog*</a>		
			<a href="#">vehicle*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">iotfleetwise:DestinationArn</a>	
<a href="#">CreateDecoderManifest</a>	Grants permission to create a decoder manifest for an existing model	Write	<a href="#">decodermanifest*</a>		
			<a href="#">modelmanifest*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateFleet</a>	Grants permission to create a fleet	Write	<a href="#">fleet*</a>		
			<a href="#">signalcatalog*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateModelManifest</a>	Grants permission to create a model manifest definition	Write	<a href="#">modelmanifest*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">signalcatalog*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSignalCatalog</a>	Grants permission to create a signal catalog	Write	<a href="#">signalcatalog*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStateTemplate</a>	Grants permission to create a state template	Write	<a href="#">signalcatalog*</a> <a href="#">statetemplate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateVehicle</a>	Grants permission to create a vehicle	Write	<a href="#">decodermanifest*</a> <a href="#">modelmanifest*</a> <a href="#">vehicle*</a>		iot:CreateThing iot:DescribeThing
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteCampaign</a>	Grants permission to delete a campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteDecoderManifest</a>	Grants permission to delete the given decoder manifest	Write	<a href="#">decodermanifest*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFleet</a>	Grants permission to delete a fleet	Write	<a href="#">fleet*</a>		
<a href="#">DeleteModelManifest</a>	Grants permission to delete the given model manifest	Write	<a href="#">modelmanifest*</a>		
<a href="#">DeleteSignalCatalog</a>	Grants permission to delete a specific signal catalog	Write	<a href="#">signalcatalog*</a>		
<a href="#">DeleteStateTemplate</a>	Grants permission to delete a state template	Write	<a href="#">statetemplate*</a>		
<a href="#">DeleteVehicle</a>	Grants permission to delete a vehicle	Write	<a href="#">vehicle*</a>		
<a href="#">DisassociateVehicleFromFleet</a>	Grants permission to disassociate a vehicle from an existing fleet	Write	<a href="#">fleet*</a> <a href="#">vehicle*</a>		
<a href="#">GenerateCommandPayload</a> [permission only]	Grants permission to generate the payload for running a command on a vehicle	Permissions management	<a href="#">vehicle*</a> <a href="#">statetemplate</a>	<a href="#">iotfleetwise:Signals</a>	
<a href="#">GetCampaign</a>	Grants permission to get summary information for a given campaign	Read	<a href="#">campaign*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDecoderManifest</a>	Grants permission to get summary information for a given decoder manifest definition	Read	<a href="#">decodermanifest*</a>		
<a href="#">GetEncryptionConfiguration</a>	Grants permission to get KMS-based encryption status for the AWS account	Read			
<a href="#">GetFleet</a>	Grants permission to get summary information for a fleet	Read	<a href="#">fleet*</a>		
<a href="#">GetLoggingOptions</a>	Grants permission to get the logging options for the AWS account	Read			
<a href="#">GetModelManifest</a>	Grants permission to get summary information for a given model manifest definition	Read	<a href="#">modelmanifest*</a>		
<a href="#">GetRegistrarAccountStatus</a>	Grants permission to get the account registration status with IoT FleetWise	Read			
<a href="#">GetSignalCatalog</a>	Grants permission to get summary information for a specific signal catalog	Read	<a href="#">signalcatalog*</a>		
<a href="#">GetStateTemplate</a>	Grants permission to get summary information for a given state template	Read	<a href="#">statetemplate*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVehicle</a>	Grants permission to get summary information for a vehicle	Read	<a href="#">vehicle*</a>		
<a href="#">GetVehicleStatus</a>	Grants permission to get the status of the campaigns running on a specific vehicle	Read	<a href="#">vehicle*</a>		
<a href="#">ImportDecoderManifest</a>	Grants permission to import an existing decoder manifest	Write	<a href="#">decodermanifest*</a>		
<a href="#">ImportSignalCatalog</a>	Grants permission to create a signal catalog by importing existing definitions	Write	<a href="#">signalcatalog*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListCampaigns</a>	Grants permission to list campaigns	Read			
<a href="#">ListDecoderManifestNetworkInterfaces</a>	Grants permission to list network interfaces associated to the existing decoder manifest	List	<a href="#">decodermanifest*</a>		
<a href="#">ListDecoderManifestSignals</a>	Grants permission to list decoder manifest signals	List	<a href="#">decodermanifest*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDecoderManifests</a>	Grants permission to list all decoder manifests, with an optional filter on model manifest	Read			
<a href="#">ListFleets</a>	Grants permission to list all fleets	Read			
<a href="#">ListFleetsForVehicle</a>	Grants permission to list all the fleets that the given vehicle is associated with	Read	<a href="#">vehicle*</a>		
<a href="#">ListModelManifestNodes</a>	Grants permission to list all nodes for the given model manifest	List	<a href="#">modelmanifest*</a>		
<a href="#">ListModelManifests</a>	Grants permission to list all model manifests, with an optional filter on signal catalog	Read			
<a href="#">ListSignalCatalogNodes</a>	Grants permission to list all nodes for a given signal catalog	Read	<a href="#">signalcatalog*</a>		
<a href="#">ListSignalCatalogs</a>	Grants permission to list all signal catalogs	Read			
<a href="#">ListStateTemplates</a>	Grants permission to list state templates	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">campaign</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">decodermanifest</a>		
			<a href="#">fleet</a>		
			<a href="#">modelmanifest</a>		
			<a href="#">signalcatalog</a>		
			<a href="#">statetemplate</a>		
			<a href="#">vehicle</a>		
<a href="#">ListVehicles</a>	Grants permission to list all vehicles, with an optional filter on model manifest	Read			
<a href="#">ListVehiclesInFleet</a>	Grants permission to list vehicles in the given fleet	Read	<a href="#">fleet*</a>		
<a href="#">PutEncryptionConfiguration</a>	Grants permission to enable or disable KMS-based encryption for the AWS account	Write			
<a href="#">PutLoggingOptions</a>	Grants permission to put the logging options for the AWS account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterAccount</a>	Grants permission to register an AWS account to IoT FleetWise	Write			iam:PassRole
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">campaign</a> <a href="#">decodermanifest</a> <a href="#">fleet</a> <a href="#">modelmanifest</a> <a href="#">signalcatalog</a> <a href="#">statetemplate</a> <a href="#">vehicle</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">campaign</a> <a href="#">decodermanifest</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fleet</a>		
			<a href="#">modelmanifest</a>		
			<a href="#">signalcatalog</a>		
			<a href="#">statetemplate</a>		
			<a href="#">vehicle</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCampaign</a>	Grants permission to update the given campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateDecoderManifest</a>	Grants permission to update a decoder manifest definition	Write	<a href="#">decodermanifest*</a>		
<a href="#">UpdateFleet</a>	Grants permission to update the fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateModelManifest</a>	Grants permission to update the given model manifest definition	Write	<a href="#">modelmanifest*</a>		
<a href="#">UpdateSignalCatalog</a>	Grants permission to update a specific signal catalog definition	Write	<a href="#">signalcatalog*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateStateTemplate</a>	Grants permission to update the given state template	Write	<a href="#">statetemplate*</a>		
<a href="#">UpdateVehicle</a>	Grants permission to update the vehicle	Write	<a href="#">vehicle*</a>		
			<a href="#">decodermanifest</a>		
			<a href="#">modelmanifest</a>		
				<a href="#">iotfleetwise:UpdateToModelManifestArn</a>	
				<a href="#">iotfleetwise:UpdateToDecoderManifestArn</a>	

## Resource types defined by AWS IoT FleetWise

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">campaign</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:campaign/\${CampaignName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">decodermanifest</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:decoder-manifest/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">fleet</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:fleet/\${FleetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">modelmanifest</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:model-manifest/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">signalcatalog</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:signal-catalog/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vehicle</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:vehicle/\${VehicleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">statetemplate</a>	arn:\${Partition}:iotfleetwise:\${Region}:\${Account}:state-template/\${StateTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT FleetWise

AWS IoT FleetWise defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">iotfleetwise:DestinationArn</a>	Filters access by campaign destination ARN, eg. an S3 bucket ARN or a Timestream ARN	ARN
<a href="#">iotfleetwise:Signals</a>	Filters access by fully qualified signal names	ArrayOfString
<a href="#">iotfleetwise:UpdateToDecoderManifestArn</a>	Filters access by a list of IoT FleetWise Decoder Manifest ARNs	ARN
<a href="#">iotfleetwise:UpdateToModelManifestArn</a>	Filters access by a list of IoT FleetWise Model Manifest ARNs	ARN

## Actions, resources, and condition keys for AWS IoT Greengrass

AWS IoT Greengrass (service prefix: `greengrass`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.



## Topics

- [Actions defined by AWS IoT Greengrass](#)
- [Resource types defined by AWS IoT Greengrass](#)
- [Condition keys for AWS IoT Greengrass](#)

## Actions defined by AWS IoT Greengrass

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate RoleToGroup</a>	Grants permission to associate a role with a group. The role's permissions must allow Greengrass core Lambda functions and connectors to perform actions in other AWS services	Write	<a href="#">group*</a>		
<a href="#">Associate ServiceRoleToAccount</a>	Grants permission to associate a role with your account. AWS IoT Greengrass uses this role to access your Lambda functions and AWS IoT resources	Permissions management			
<a href="#">CreateConnectorDefinition</a>	Grants permission to create a connector definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnectorDefinitionVersion</a>	Grants permission to create a version of an existing connector definition	Write	<a href="#">connectorDefinition*</a>		
<a href="#">CreateCoreDefinition</a>	Grants permission to create a core definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCoreDefinitionVersion</a>	Grants permission to create a version of an existing core definition. Greengrass groups must each contain exactly one Greengrass core	Write	<a href="#">coreDefinition*</a>		
<a href="#">CreateDeployment</a>	Grants permission to create a deployment	Write	<a href="#">group*</a>		
<a href="#">CreateDeviceDefinition</a>	Grants permission to create a device definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDeviceDefinitionVersion</a>	Grants permission to create a version of an existing device definition	Write	<a href="#">deviceDefinition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFunctionDefinition</a>	Grants permission to create a Lambda function definition to be used in a group that contains a list of Lambda functions and their configurations	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFunctionDefinitionVersion</a>	Grants permission to create a version of an existing Lambda function definition	Write	<a href="#">functionDefinition*</a>		
<a href="#">CreateGroup</a>	Grants permission to create a group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGroupCertificateAuthority</a>	Grants permission to create a CA for the group, or rotate the existing CA	Write	<a href="#">group*</a>		
<a href="#">CreateGroupVersion</a>	Grants permission to create a version of a group that has already been defined	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLoggerDefinition</a>	Grants permission to create a logger definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLoggerDefinitionVersion</a>	Grants permission to create a version of an existing logger definition	Write	<a href="#">loggerDefinition*</a>		
<a href="#">CreateResourceDefinition</a>	Grants permission to create a resource definition that contains a list of resources to be used in a group	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateResourceDefinitionVersion</a>	Grants permission to create a version of an existing resource definition	Write	<a href="#">resourceDefinition*</a>		
<a href="#">CreateSoftwareUpdateJob</a>	Grants permission to create an AWS IoT job that will trigger your Greengrass cores to update the software they are running	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubscriptionDefinition</a>	Grants permission to create a subscription definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSubscriptionDefinitionVersion</a>	Grants permission to create a version of an existing subscription definition	Write	<a href="#">subscriptionDefinition*</a>		
<a href="#">DeleteConnectorDefinition</a>	Grants permission to delete a connector definition	Write	<a href="#">connectorDefinition*</a>		
<a href="#">DeleteCoreDefinition</a>	Grants permission to delete a core definition. Deleting a definition that is currently in use in a deployment affects future deployments	Write	<a href="#">coreDefinition*</a>		
<a href="#">DeleteDeviceDefinition</a>	Grants permission to delete a device definition. Deleting a definition that is currently in use in a deployment affects future deployments	Write	<a href="#">deviceDefinition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFunctionDefinition</a>	Grants permission to delete a Lambda function definition. Deleting a definition that is currently in use in a deployment affects future deployments	Write	<a href="#">functionDefinition*</a>		
<a href="#">DeleteGroup</a>	Grants permission to delete a group that is not currently in use in a deployment	Write	<a href="#">group*</a>		
<a href="#">DeleteLoggerDefinition</a>	Grants permission to delete a logger definition. Deleting a definition that is currently in use in a deployment affects future deployments	Write	<a href="#">loggerDefinition*</a>		
<a href="#">DeleteResourceDefinition</a>	Grants permission to delete a resource definition	Write	<a href="#">resourceDefinition*</a>		
<a href="#">DeleteSubscriptionDefinition</a>	Grants permission to delete a subscription definition. Deleting a definition that is currently in use in a deployment affects future deployments	Write	<a href="#">subscriptionDefinition*</a>		
<a href="#">DisassociateRoleFromGroup</a>	Grants permission to disassociate the role from a group	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateServiceRoleFromAccount</a>	Grants permission to disassociate the service role from an account. Without a service role, deployments will not work	Write			
<a href="#">Discover</a>	Grants permission to retrieve information required to connect to a Greengrass core	Read	<a href="#">thing*</a>		
<a href="#">GetAssociatedRole</a>	Grants permission to retrieve the role associated with a group	Read	<a href="#">group*</a>		
<a href="#">GetBulkDeploymentStatus</a>	Grants permission to return the status of a bulk deployment	Read	<a href="#">bulkDeployment*</a>		
<a href="#">GetConnectivityInfo</a>	Grants permission to retrieve the connectivity information for a core	Read	<a href="#">connectivityInfo*</a>		
<a href="#">GetConnectorDefinition</a>	Grants permission to retrieve information about a connector definition	Read	<a href="#">connectorDefinition*</a>		
<a href="#">GetConnectorDefinitionVersion</a>	Grants permission to retrieve information about a connector definition version	Read	<a href="#">connectorDefinition*</a>		
			<a href="#">connectorDefinitionVersion*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCoreDefinition</a>	Grants permission to retrieve information about a core definition	Read	<a href="#">coreDefinition*</a>		
<a href="#">GetCoreDefinitionVersion</a>	Grants permission to retrieve information about a core definition version	Read	<a href="#">coreDefinition*</a>		
			<a href="#">coreDefinitionVersion*</a>		
<a href="#">GetDeploymentStatus</a>	Grants permission to return the status of a deployment	Read	<a href="#">deployment*</a>		
			<a href="#">group*</a>		
<a href="#">GetDeviceDefinition</a>	Grants permission to retrieve information about a device definition	Read	<a href="#">deviceDefinition*</a>		
<a href="#">GetDeviceDefinitionVersion</a>	Grants permission to retrieve information about a device definition version	Read	<a href="#">deviceDefinition*</a>		
			<a href="#">deviceDefinitionVersion*</a>		
<a href="#">GetFunctionDefinition</a>	Grants permission to retrieve information about a Lambda function definition, such as its creation time and latest version	Read	<a href="#">functionDefinition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFunctionDefinitionVersion</a>	Grants permission to retrieve information about a Lambda function definition version, such as which Lambda functions are included in the version and their configurations	Read	<a href="#">functionDefinition*</a> <a href="#">functionDefinitionVersion*</a>		
<a href="#">GetGroup</a>	Grants permission to retrieve information about a group	Read	<a href="#">group*</a>		
<a href="#">GetGroupCertificateAuthority</a>	Grants permission to return the public key of the CA associated with a group	Read	<a href="#">certificateAuthority*</a> <a href="#">group*</a>		
<a href="#">GetGroupCertificateConfiguration</a>	Grants permission to retrieve the current configuration for the CA used by a group	Read	<a href="#">group*</a>		
<a href="#">GetGroupVersion</a>	Grants permission to retrieve information about a group version	Read	<a href="#">group*</a> <a href="#">groupVersion*</a>		
<a href="#">GetLoggerDefinition</a>	Grants permission to retrieve information about a logger definition	Read	<a href="#">loggerDefinition*</a>		
<a href="#">GetLoggerDefinitionVersion</a>	Grants permission to retrieve information about a logger definition version	Read	<a href="#">loggerDefinition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">loggerDefinitionVersion*</a>		
<a href="#">GetResourceDefinition</a>	Grants permission to retrieve information about a resource definition, such as its creation time and latest version	Read	<a href="#">resourceDefinition*</a>		
<a href="#">GetResourceDefinitionVersion</a>	Grants permission to retrieve information about a resource definition version, such as which resources are included in the version	Read	<a href="#">resourceDefinitionVersion*</a>		
<a href="#">GetServiceRoleForAccount</a>	Grants permission to retrieve the service role that is attached to an account	Read			
<a href="#">GetSubscriptionDefinition</a>	Grants permission to retrieve information about a subscription definition	Read	<a href="#">subscriptionDefinition*</a>		
<a href="#">GetSubscriptionDefinitionVersion</a>	Grants permission to retrieve information about a subscription definition version	Read	<a href="#">subscriptionDefinition*</a>		
			<a href="#">subscriptionDefinitionVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetThingRuntimeConfiguration</a>	Grants permission to retrieve runtime configuration of a thing	Read	<a href="#">thingRuntimeConfig*</a>		
<a href="#">ListBulkDeploymentDetailedReports</a>	Grants permission to retrieve a paginated list of the deployments that have been started in a bulk deployment operation and their current deployment status	Read	<a href="#">bulkDeployment*</a>		
<a href="#">ListBulkDeployments</a>	Grants permission to retrieve a list of bulk deployments	List			
<a href="#">ListConnectorDefinitionVersions</a>	Grants permission to list the versions of a connector definition	List	<a href="#">connectorDefinition*</a>		
<a href="#">ListConnectorDefinitions</a>	Grants permission to retrieve a list of connector definitions	List			
<a href="#">ListCoreDefinitionVersions</a>	Grants permission to list the versions of a core definition	List	<a href="#">coreDefinition*</a>		
<a href="#">ListCoreDefinitions</a>	Grants permission to retrieve a list of core definitions	List			
<a href="#">ListDeployments</a>	Grants permission to retrieve a list of all deployments for a group	List	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDeviceDefinitionVersions</a>	Grants permission to list the versions of a device definition	List	<a href="#">deviceDefinition*</a>		
<a href="#">ListDeviceDefinitions</a>	Grants permission to retrieve a list of device definitions	List			
<a href="#">ListFunctionDefinitionVersions</a>	Grants permission to list the versions of a Lambda function definition	List	<a href="#">functionDefinition*</a>		
<a href="#">ListFunctionDefinitions</a>	Grants permission to retrieve a list of Lambda function definitions	List			
<a href="#">ListGroupCertificateAuthorities</a>	Grants permission to retrieve a list of current CAs for a group	List	<a href="#">group*</a>		
<a href="#">ListGroupVersions</a>	Grants permission to list the versions of a group	List	<a href="#">group*</a>		
<a href="#">ListGroups</a>	Grants permission to retrieve a list of groups	List			
<a href="#">ListLoggerDefinitionVersions</a>	Grants permission to list the versions of a logger definition	List	<a href="#">loggerDefinition*</a>		
<a href="#">ListLoggerDefinitions</a>	Grants permission to retrieve a list of logger definitions	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceDefinitionVersions</a>	Grants permission to list the versions of a resource definition	List	<a href="#">resourceDefinition*</a>		
<a href="#">ListResourceDefinitions</a>	Grants permission to retrieve a list of resource definitions	List			
<a href="#">ListSubscriptionDefinitionVersions</a>	Grants permission to list the versions of a subscription definition	List	<a href="#">subscriptionDefinition*</a>		
<a href="#">ListSubscriptionDefinitions</a>	Grants permission to retrieve a list of subscription definitions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">bulkDeployment</a>		
			<a href="#">connectorDefinition</a>		
			<a href="#">coreDefinition</a>		
			<a href="#">deviceDefinition</a>		
			<a href="#">functionDefinition</a>		
			<a href="#">group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">loggerDefinition</a>		
			<a href="#">resourceDefinition</a>		
			<a href="#">subscriptionDefinition</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ResetDeployments</a>	Grants permission to reset a group's deployments	Write	<a href="#">group*</a>		
<a href="#">StartBulkDeployment</a>	Grants permission to deploy multiple groups in one operation	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopBulkDeployment</a>	Grants permission to stop the execution of a bulk deployment	Write	<a href="#">bulkDeployment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">bulkDeployment</a>		
			<a href="#">connectorDefinition</a>		
			<a href="#">coreDefinition</a>		
			<a href="#">deviceDefinition</a>		
			<a href="#">functionDefinition</a>		
			<a href="#">group</a>		
			<a href="#">loggerDefinition</a>		
			<a href="#">resourceDefinition</a>		
			<a href="#">subscriptionDefinition</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">bulkDeployment</a>  <a href="#">connectorDefinition</a>  <a href="#">coreDefinition</a>  <a href="#">deviceDefinition</a>  <a href="#">functionDefinition</a>  <a href="#">group</a>  <a href="#">loggerDefinition</a>  <a href="#">resourceDefinition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subscriptionDefinition</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnectivityInfo</a>	Grants permission to update the connectivity information for a Greengrass core. Any devices that belong to the group that has this core will receive this information in order to find the location of the core and connect to it	Write	<a href="#">connectivityInfo*</a>		
<a href="#">UpdateConnectorDefinition</a>	Grants permission to update a connector definition	Write	<a href="#">connectorDefinition*</a>		
<a href="#">UpdateCoreDefinition</a>	Grants permission to update a core definition	Write	<a href="#">coreDefinition*</a>		
<a href="#">UpdateDeviceDefinition</a>	Grants permission to update a device definition	Write	<a href="#">deviceDefinition*</a>		
<a href="#">UpdateFunctionDefinition</a>	Grants permission to update a Lambda function definition	Write	<a href="#">functionDefinition*</a>		
<a href="#">UpdateGroup</a>	Grants permission to update a group	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateGroupCertificateConfiguration</a>	Grants permission to update the certificate expiry time for a group	Write	<a href="#">group*</a>		
<a href="#">UpdateLoggerDefinition</a>	Grants permission to update a logger definition	Write	<a href="#">loggerDefinition*</a>		
<a href="#">UpdateResourceDefinition</a>	Grants permission to update a resource definition	Write	<a href="#">resourceDefinition*</a>		
<a href="#">UpdateSubscriptionDefinition</a>	Grants permission to update a subscription definition	Write	<a href="#">subscriptionDefinition*</a>		
<a href="#">UpdateThingRuntimeConfiguration</a>	Grants permission to update runtime configuration of a thing	Write	<a href="#">thingRuntimeConfig*</a>		

## Resource types defined by AWS IoT Greengrass

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connectivityInfo</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/things/\${ThingName}/connectivityInfo	
<a href="#">certificateAuthority</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/groups/\${GroupId}/certificateauthorities/\${CertificateAuthorityId}	
<a href="#">deployment</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/groups/\${GroupId}/deployments/\${DeploymentId}	
<a href="#">bulkDeployment</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/bulk/deployments/\${BulkDeploymentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">group</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/groups/\${GroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">groupVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/groups/\${GroupId}/versions/\${VersionId}	
<a href="#">coreDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/cores/\${CoreDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">coreDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/cores/\${CoreDefinitionId}/versions/\${VersionId}	

Resource types	ARN	Condition keys
<a href="#">deviceDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/devices/\${DeviceDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deviceDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/devices/\${DeviceDefinitionId}/versions/\${VersionId}	
<a href="#">functionDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/functions/\${FunctionDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">functionDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/functions/\${FunctionDefinitionId}/versions/\${VersionId}	
<a href="#">subscriptionDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/subscriptions/\${SubscriptionDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subscriptionDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/subscriptions/\${SubscriptionDefinitionId}/versions/\${VersionId}	
<a href="#">loggerDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/loggers/\${LoggerDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">loggerDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/loggers/\${LoggerDefinitionId}/versions/\${VersionId}	
<a href="#">resourceDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/resources/\${ResourceDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resourceDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/resources/\${ResourceDefinitionId}/versions/\${VersionId}	
<a href="#">connectorDefinition</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/connectors/\${ConnectorDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connectorDefinitionVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/definition/connectors/\${ConnectorDefinitionId}/versions/\${VersionId}	
<a href="#">thing</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thing/\${ThingName}	
<a href="#">thingRuntimeConfig</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/things/\${ThingName}/runtimeconfig	

## Condition keys for AWS IoT Greengrass

AWS IoT Greengrass defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the mandatory tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS IoT Greengrass V2

AWS IoT Greengrass V2 (service prefix: `greengrass`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Greengrass V2](#)
- [Resource types defined by AWS IoT Greengrass V2](#)
- [Condition keys for AWS IoT Greengrass V2](#)

## Actions defined by AWS IoT Greengrass V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the



Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateServiceRoleToAccount</a>	Grants permission to associate a role with your account. AWS IoT Greengrass uses this role to access your Lambda functions and AWS IoT resources	Permissions management			iam:PassRole
<a href="#">BatchAssociateClientDeviceWithCoreDevice</a>	Grants permission to associate a list of client devices with a core device	Write	<a href="#">coreDevice*</a>		
<a href="#">BatchDisassociateClientDeviceFromCoreDevice</a>	Grants permission to disassociate a list of client devices from a core device	Write	<a href="#">coreDevice*</a>		
<a href="#">CancelDeployment</a>	Grants permission to cancel a deployment	Write	<a href="#">deployment*</a>		iot:CancelJob  iot:DeleteThingShadow

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iot:DescribeJob iot:DescribeThing iot:DescribeThingGroup iot:GetThingShadow iot:UpdateJob iot:UpdateThingShadow
<a href="#">CreateComponentVersion</a>	Grants permission to create a component	Write	<a href="#">component*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDeployment</a>	Grants permission to create a deployment	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iot:CancelJob  iot>CreateJob  iot:DeleteThingShadow  iot:DescribeJob  iot:DescribeThing  iot:DescribeThingGroup  iot:GetThingShadow  iot:UpdateJob  iot:UpdateThingShadow
<a href="#">DeleteComponent</a>	Grants permission to delete a component	Write	<a href="#">componentVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCoreDevice</a>	Grants permission to delete a AWS IoT Greengrass core device, which is an AWS IoT thing. This operation removes the core device from the list of core devices. This operation doesn't delete the AWS IoT thing	Write	<a href="#">coreDevice*</a>		iot:DescribeJobExecution
<a href="#">DeleteDeployment</a>	Grants permission to delete a deployment. To delete an active deployment, it needs to be cancelled first	Write	<a href="#">deployment*</a>		iot:DeleteJob
<a href="#">DescribeComponent</a>	Grants permission to retrieve metadata for a version of a component	Read	<a href="#">componentVersion*</a>		
<a href="#">DisassociateServiceRoleFromAccount</a>	Grants permission to disassociate the service role from an account. Without a service role, deployments will not work	Write			
<a href="#">GetComponent</a>	Grants permission to get the recipe for a version of a component	Read	<a href="#">componentVersion*</a>		
<a href="#">GetComponentVersionArtifact</a>	Grants permission to get the pre-signed URL to download a public component artifact	Read	<a href="#">componentVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConnectivityInfo</a>	Grants permission to retrieve the connectivity information for a Greengrass core device	Read	<a href="#">connectivityInfo*</a>		iot:GetThingShadow
<a href="#">GetCoreDevice</a>	Grants permission to retrieves metadata for a AWS IoT Greengrass core device	Read	<a href="#">coreDevice*</a>		
<a href="#">GetDeployment</a>	Grants permission to get a deployment	Read	<a href="#">deployment*</a>		iot:DescribeJob iot:DescribeThing iot:DescribeThingGroup iot:GetThingShadow
<a href="#">GetServiceRoleForAccount</a>	Grants permission to retrieve the service role that is attached to an account	Read			
<a href="#">ListClientDevicesAssociatedWithCoreDevice</a>	Grants permission to retrieve a paginated list of client devices associated to a AWS IoT Greengrass core device	List	<a href="#">coreDevice*</a>		
<a href="#">ListComponentVersions</a>	Grants permission to retrieve a paginated list of all versions for a component	List	<a href="#">component*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListComponents</a>	Grants permission to retrieve a paginated list of component summaries	List			
<a href="#">ListCoreDevices</a>	Grants permission to retrieve a paginated list of AWS IoT Greengrass core devices	List			
<a href="#">ListDeployments</a>	Grants permission to retrieves a paginated list of deployments	List			iot:DescribeJob iot:DescribeThing iot:DescribeThingGroup iot:GetThingShadow

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEffectiveDeployments</a>	Grants permission to retrieve a paginated list of deployment jobs that AWS IoT Greengrass sends to AWS IoT Greengrass core devices	List	<a href="#">coreDevice*</a>		iot:DescribeJob iot:DescribeJobExecution iot:DescribeThing iot:DescribeThingGroup iot:GetThingShadow
<a href="#">ListInstalledComponents</a>	Grants permission to retrieve a paginated list of the components that a AWS IoT Greengrass core device runs	List	<a href="#">coreDevice*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">component</a>		
			<a href="#">componentVersion</a>		
			<a href="#">coreDevice</a>		
			<a href="#">deployment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ResolveComponentCandidates</a>	Grants permission to list components that meet the component, version, and platform requirements of a deployment	List	<a href="#">componentVersion*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">component</a> <a href="#">componentVersion</a> <a href="#">coreDevice</a> <a href="#">deployment</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">component</a> <a href="#">componentVersion</a> <a href="#">coreDevice</a> <a href="#">deployment</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnectivityInfo</a>	Grants permission to update the connectivity information for a Greengrass core. Any devices that belong to the group that has this core will receive this information in order to find the location of the core and connect to it	Write	<a href="#">connectivityInfo*</a>		iot:GetThingShadow  iot:UpdateThingShadow

## Resource types defined by AWS IoT Greengrass V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connectivityInfo</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:/greengrass/things/\${ThingName}/connectivityInfo	
<a href="#">component</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:components:\${ComponentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">componentVersion</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:components:\${ComponentName}:versions:\${ComponentVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">coreDevice</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:coreDevices:\${CoreDeviceThingName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deployment</a>	arn:\${Partition}:greengrass:\${Region}:\${Account}:deployments:\${DeploymentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT Greengrass V2

AWS IoT Greengrass V2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by checking tag key/value pairs included in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by checking tag key/value pairs associated with a specific resource	String
<a href="#">aws:TagKeys</a>	Filters access by checking tag keys passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS IoT Jobs DataPlane

AWS IoT Jobs DataPlane (service prefix: `iotjobsdata`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Jobs DataPlane](#)
- [Resource types defined by AWS IoT Jobs DataPlane](#)
- [Condition keys for AWS IoT Jobs DataPlane](#)

## Actions defined by AWS IoT Jobs DataPlane

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeJobExecution</a>	Grants permission to describe a job execution	Read	<a href="#">thing*</a>	<a href="#">iot:JobId</a>	
<a href="#">GetPendingJobExecutions</a>	Grants permission to get the list of all jobs for a thing that are not in a terminal state	Read	<a href="#">thing*</a>		
<a href="#">StartNextPendingJobExecution</a>	Grants permission to get and start the next pending job execution for a thing	Write	<a href="#">thing*</a>		
<a href="#">UpdateJobExecution</a>	Grants permission to update a job execution	Write	<a href="#">thing*</a>	<a href="#">iot:JobId</a>	

## Resource types defined by AWS IoT Jobs DataPlane

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">thing</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thing/\${ThingName}	

## Condition keys for AWS IoT Jobs DataPlane

AWS IoT Jobs DataPlane defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">iot:JobId</a>	Filters access by jobId for <code>iotjobsdata:DescribeJobExecution</code> and <code>iotjobsdata:UpdateJobExecution</code> APIs	String

## Actions, resources, and condition keys for AWS IoT Managed Integrations

AWS IoT Managed Integrations (service prefix: `iotmanagedintegrations`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Managed Integrations](#)
- [Resource types defined by AWS IoT Managed Integrations](#)
- [Condition keys for AWS IoT Managed Integrations](#)

## Actions defined by AWS IoT Managed Integrations

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccountAssociation</a>	Grants permission to create a new account association	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">iotmanagedintegrations:connectorDestinationId</a>	
<a href="#">CreateCloudConnector</a>	Grants permission to create a new cloud connector	Write			
<a href="#">CreateConnectorDestination</a>	Grants permission to create a new connector destination	Write		<a href="#">iotmanagedintegrations:cloudConnectorId</a>	
<a href="#">CreateCredentialLocker</a>	Grants permission to create a product credential locker	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDestination</a>	Grants permission to create a new destination	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEventLogConfiguration</a>	Grants permission to create a new event configuration	Write			
<a href="#">CreateManagedThing</a>	Grants permission to create a new managed thing	Write	<a href="#">credential-locker</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateNotificationConfiguration</a>	Grants permission to create a new notification configuration	Write			
<a href="#">CreateOtaTask</a>	Grants permission to create a new ota task	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateOtaTaskConfiguration</a>	Grants permission to create a new ota task configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProvisioningProfile</a>	Grants permission to create a new provisioning profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccountAssociation</a>	Grants permission to delete an account association	Write	<a href="#">account-association*</a>		
<a href="#">DeleteCloudConnector</a>	Grants permission to delete a cloud connector	Write		<a href="#">iotmanagedintegrations:cloudConnectorId</a>	
<a href="#">DeleteConnectorDestination</a>	Grants permission to delete a connector destination	Write			
<a href="#">DeleteCredentialLocker</a>	Grants permission to delete a credential locker	Write	<a href="#">credential-locker*</a>		
<a href="#">DeleteDestination</a>	Grants permission to delete destination	Write			
<a href="#">DeleteEventLogConfiguration</a>	Grants permission to delete event log configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteManagedThing</a>	Grants permission to delete managed thing	Write	<a href="#">managed-thing*</a>		
<a href="#">DeleteNotificationConfiguration</a>	Grants permission to delete notification configuration	Write			
<a href="#">DeleteOtaTask</a>	Grants permission to delete ota task	Write	<a href="#">ota-task*</a>		
<a href="#">DeleteOtaTaskConfiguration</a>	Grants permission to delete ota task configuration	Write			
<a href="#">DeleteProvisioningProfile</a>	Grants permission to delete provisioning profile	Write	<a href="#">provisioning-profile*</a>		
<a href="#">DeregisterAccountAssociation</a>	Grants permission to deregister account association	Write	<a href="#">account-association*</a>		
			<a href="#">managed-thing*</a>		
<a href="#">GetAccountAssociation</a>	Grants permission to get information about an account association	Read	<a href="#">account-association*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCloudConnector</a>	Grants permission to get information about a cloud connector	Read			
<a href="#">GetConnectorDestination</a>	Grants permission to get information about a cloud destination	Read			
<a href="#">GetCredentialLocker</a>	Grants permission to get information about a credential locker	Read	<a href="#">credential-locker*</a>		
<a href="#">GetCustomEndpoint</a>	Grants permission to get information about a custom endpoint	Read			
<a href="#">GetDefaultEncryptionConfiguration</a>	Grants permission to get information about a default encryption configuration	Read			
<a href="#">GetDestination</a>	Grants permission to get information about a destination	Read			
<a href="#">GetDeviceDiscovery</a>	Grants permission to get information about a device discovery	Read			
<a href="#">GetEventLogConfiguration</a>	Grants permission to get information about an event log configuration	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHubConfiguration</a>	Grants permission to get information about a hub configuration	Read			
<a href="#">GetManagedThing</a>	Grants permission to get information about a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">GetManagedThingCapabilities</a>	Grants permission to get the capability report for a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">GetManagedThingCertificate</a>	Grants permission to get the certificate pem for a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">GetManagedThingConnectivityData</a>	Grants permission to get the connectivity data for a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">GetManagedThingMetadata</a>	Grants permission to get the meta data information for a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">GetManagedThingState</a>	Grants permission to get the device state information for a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">GetNotificationConfiguration</a>	Grants permission to get information for a notification configuration	Read			
<a href="#">GetOtaTask</a>	Grants permission to get information for an ota task	Read	<a href="#">ota-task*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOtaTaskConfiguration</a>	Grants permission to get information for an ota task configuration	Read			
<a href="#">GetProvisioningProfile</a>	Grants permission to get information for a provisioning profile	Read	<a href="#">provisioning-profile*</a>		
<a href="#">GetRuntimeLogConfiguration</a>	Grants permission to get information for a runtime log configuration	Read			
<a href="#">GetSchemaVersion</a>	Grants permission to get information for a version of a schema	Read			
<a href="#">ListAccountAssociations</a>	Grants permission to list information for account associations	List			
<a href="#">ListCloudConnectors</a>	Grants permission to list information for cloud connectors	List			
<a href="#">ListConnectorDestinations</a>	Grants permission to list information for connector destinations	List			
<a href="#">ListCredentialLockers</a>	Grants permission to list information for credential lockers	List			
<a href="#">ListDestinations</a>	Grants permission to list information for destinations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDeviceDiscoveries</a>	Grants permission to list information for device discoveries	List			
<a href="#">ListDiscoveredDevices</a>	Grants permission to list information for device discovered in a device discoveries	Read			
<a href="#">ListEventLogConfigurations</a>	Grants permission to list information for event log configurations	Read			
<a href="#">ListManagedThingAccountAssociations</a>	Grants permission to list information for associations between managed thing and account associations	List			
<a href="#">ListManagedThingSchemas</a>	Grants permission to list schemas associated with a managed thing	Read	<a href="#">managed-thing*</a>		
<a href="#">ListManagedThings</a>	Grants permission to list information for managed things	List			
<a href="#">ListNotificationConfigurations</a>	Grants permission to list information for notification configurations	Read			
<a href="#">ListOtaTaskConfigurations</a>	Grants permission to list information for ota task configurations	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOtaTaskExecutions</a>	Grants permission to list information for ota task executions	Read	<a href="#">ota-task*</a>		
<a href="#">ListOtaTasks</a>	Grants permission to list information for ota tasks	List			
<a href="#">ListProvisioningProfiles</a>	Grants permission to list information for provisioning profiles	List			
<a href="#">ListSchemaVersions</a>	Grants permission to list information for schemas	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for the specified resource	Read	<a href="#">account-association</a>		
			<a href="#">credential-locker</a>		
			<a href="#">managed-thing</a>		
			<a href="#">ota-task</a>		
			<a href="#">provisioning-profile</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutDefaultEncryptionConfiguration</a>	Grants permission to update the default settings for an encryption configuration	Write			
<a href="#">PutHubConfiguration</a>	Grants permission to update a hub configuration	Write			
<a href="#">PutRuntimeLogConfiguration</a>	Grants permission to update a runtime log configuration	Write			
<a href="#">RegisterAccountAssociation</a>	Grants permission to register an account association to a managed thing	Write	<a href="#">account-association*</a> <a href="#">managed-thing*</a>		
<a href="#">RegisterCustomEndpoint</a>	Grants permission to register a custom endpoint	Write			
<a href="#">ResetRuntimeLogConfiguration</a>	Grants permission to reset a runtime log configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendConnectorEvent</a>	Grants permission to send a connector event	Write			
<a href="#">SendManagedThingCommand</a>	Grants permission to send a command to a managed thing	Write	<a href="#">managed-thing*</a>		
<a href="#">StartAccountAssociationRefresh</a>	Grants permission to start a refresh of access tokens associated with an account association	Write	<a href="#">account-association</a>		
<a href="#">StartDeviceDiscovery</a>	Grants permission to start a device discovery	Write	<a href="#">account-association</a>		
<a href="#">TagResource</a>	Grants permission to add tags for the specified resource	Tagging	<a href="#">managed-thing</a>		
			<a href="#">account-association</a>		
			<a href="#">credential-locker</a>		
			<a href="#">managed-thing</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ota-task</a>		
			<a href="#">provisioning-profile</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags for the specified resource	Tagging	<a href="#">account-association</a>		
			<a href="#">credential-locker</a>		
			<a href="#">managed-thing</a>		
			<a href="#">ota-task</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">provisioning-profile</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountAssociation</a>	Grants permission to update an account association	Write	<a href="#">account-association*</a>		
<a href="#">UpdateCloudConnector</a>	Grants permission to update a cloud connector	Write		<a href="#">iotmanagedintegrations:cloudConnectorId</a>	
<a href="#">UpdateConnectorDestination</a>	Grants permission to update a connector destination	Write			
<a href="#">UpdateDestination</a>	Grants permission to update a destination	Write			
<a href="#">UpdateEventLogConfiguration</a>	Grants permission to update an event log configuration	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateManagedThing</a>	Grants permission to update a managed thing	Write	<a href="#">managed-thing*</a>		
			<a href="#">credential-locker</a>		
<a href="#">UpdateNotificationConfiguration</a>	Grants permission to update a notification configuration	Write			
<a href="#">UpdateOtaTask</a>	Grants permission to update an ota task	Write	<a href="#">ota-task*</a>		

## Resource types defined by AWS IoT Managed Integrations

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">account-association</a>	arn:\${Partition}:iotmanagedintegrations:\${Region}:\${Account}:account-association/\${AccountAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">credential-locker</a>	arn:\${Partition}:iotmanagedintegrations:\${Region}:\${Account}:credential-locker/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">managed-thing</a>	arn:\${Partition}:iotmanagedintegrations:\${Region}:\${Account}:managed-thing/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ota-task</a>	arn:\${Partition}:iotmanagedintegrations:\${Region}:\${Account}:ota-task/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">provisioning-profile</a>	arn:\${Partition}:iotmanagedintegrations:\${Region}:\${Account}:provisioning-profile/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT Managed Integrations

AWS IoT Managed Integrations defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString
<a href="#">iotmanagedintegrat</a>	Filters access by the CloudConnectorId	String

Condition keys	Description	Type
<a href="#">ions:cloudConnectorId</a>		
<a href="#">iotmanagedintegrations:connectorDestinationId</a>	Filters access by the ConnectorDestinationId	String

## Actions, resources, and condition keys for AWS IoT SiteWise

AWS IoT SiteWise (service prefix: `iotsitewise`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT SiteWise](#)
- [Resource types defined by AWS IoT SiteWise](#)
- [Condition keys for AWS IoT SiteWise](#)

## Actions defined by AWS IoT SiteWise

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Assets</a>	Grants permission to associate a child asset with a parent asset through a hierarchy	Write	<a href="#">asset*</a>		
<a href="#">Associate TimeSeriesToAssetProperty</a>	Grants permission to associate a time series with an asset property	Write	<a href="#">asset*</a> <a href="#">time-series*</a>		
<a href="#">BatchAssociateProjectAssets</a>	Grants permission to associate assets to a project	Write	<a href="#">project*</a>		
<a href="#">BatchDisassociateProjectAssets</a>	Grants permission to disassociate assets from a project	Write	<a href="#">project*</a>		
<a href="#">BatchGetAssetPropertyAggregates</a>	Grants permission to retrieve computed aggregates for multiple asset properties	Read	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">BatchGetAssetPropertyValue</a>	Grants permission to retrieve the latest value for multiple asset properties	Read	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">BatchGetAssetPropertyValueHistory</a>	Grants permission to retrieve the value history for multiple asset properties	Read	<a href="#">asset</a> <a href="#">time-series</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchPutAssetPropertyValue</a>	Grants permission to put property values for asset properties	Write	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">CreateAccessPolicy</a>	Grants permission to create an access policy for a portal or a project	Write	<a href="#">portal</a> <a href="#">project</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAsset</a>	Grants permission to create an asset from an asset model	Write	<a href="#">asset-model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAssetModel</a>	Grants permission to create an asset model	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAssetModelCompositeModel</a>	Grants permission to create an asset model composite model inside an asset model	Write	<a href="#">asset-model*</a>		
<a href="#">CreateBulkImportJob</a>	Grants permission to create bulk import job	Write			
<a href="#">CreateComputationModel</a>	Grants permission to create a computation model	Write	<a href="#">asset</a>		
			<a href="#">asset-model</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDashboard</a>	Grants permission to create a dashboard in a project	Write	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataset</a>	Grants permission to create a dataset	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGateway</a>	Grants permission to create a gateway	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePortal</a>	Grants permission to create a portal	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sso:CreateManagedApplicationInstance sso:DescribeRegisteredRegions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProject</a>	Grants permission to create a project in a portal	Write	<a href="#">portal*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccessPolicy</a>	Grants permission to delete an access policy	Write	<a href="#">access-policy*</a>		
<a href="#">DeleteAsset</a>	Grants permission to delete an asset	Write	<a href="#">asset*</a>		
<a href="#">DeleteAssetModel</a>	Grants permission to delete an asset model	Write	<a href="#">asset-model*</a>		
<a href="#">DeleteAssetModelCompositeModel</a>	Grants permission to delete an asset model composite model	Write	<a href="#">asset-model*</a>		
<a href="#">DeleteAssetModelInterfaceRelationship</a>	Grants permission to delete a relationship between asset model and interface	Write	<a href="#">asset-model*</a>		
<a href="#">DeleteComputationModel</a>	Grants permission to delete a computation model	Write	<a href="#">computation-model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDashboard</a>	Grants permission to delete a dashboard	Write	<a href="#">dashboard*</a>		
<a href="#">DeleteDataset</a>	Grants permission to delete a dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteGateway</a>	Grants permission to delete a gateway	Write	<a href="#">gateway*</a>		
<a href="#">DeletePortal</a>	Grants permission to delete a portal	Write	<a href="#">portal*</a>		sso:DeleteManagedApplicationInstance
<a href="#">DeleteProject</a>	Grants permission to delete a project	Write	<a href="#">project*</a>		
<a href="#">DeleteTimeSeries</a>	Grants permission to delete a time series	Write	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">DescribeAccessPolicy</a>	Grants permission to describe an access policy	Read	<a href="#">access-policy*</a>		
<a href="#">DescribeAction</a>	Grants permission to describe actions	Read	<a href="#">asset</a> <a href="#">computation-model</a>		
<a href="#">DescribeAsset</a>	Grants permission to describe an asset	Read	<a href="#">asset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAssetCompositeModel</a>	Grants permission to describe an asset composite model	Read	<a href="#">asset*</a>		
<a href="#">DescribeAssetModel</a>	Grants permission to describe an asset model	Read	<a href="#">asset-model*</a>		
<a href="#">DescribeAssetModelCompositeModel</a>	Grants permission to describe an asset model composite model	Read	<a href="#">asset-model*</a>		
<a href="#">DescribeAssetModelInterfaceRelationship</a>	Grants permission to describe a relationship between asset model and interface	Read	<a href="#">asset-model*</a>		
<a href="#">DescribeAssetProperty</a>	Grants permission to describe an asset property	Read	<a href="#">asset*</a>		
<a href="#">DescribeBulkImportJob</a>	Grants permission to describe bulk import job	Read			
<a href="#">DescribeComputationModel</a>	Grants permission to describe a computation model	Read	<a href="#">computation-model*</a>		
<a href="#">DescribeComputationModelExecutionSummary</a>	Grants permission to describe computation model execution summary	Read	<a href="#">computation-model*</a> <a href="#">asset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDashboard</a>	Grants permission to describe a dashboard	Read	<a href="#">dashboard*</a>		
<a href="#">DescribeDataset</a>	Grants permission to describe dataset	Read	<a href="#">dataset*</a>		
<a href="#">DescribeDefaultEncryptionConfiguration</a>	Grants permission to describe the default encryption configuration for the AWS account	Read			
<a href="#">DescribeExecution</a>	Grants permission to describe an execution	Read			
<a href="#">DescribeGateway</a>	Grants permission to describe a gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeGatewayCapabilityConfiguration</a>	Grants permission to describe a capability configuration for a gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeLoggingOptions</a>	Grants permission to describe logging options for the AWS account	Read			
<a href="#">DescribePortal</a>	Grants permission to describe a portal	Read	<a href="#">portal*</a>		
<a href="#">DescribeProject</a>	Grants permission to describe a project	Read	<a href="#">project*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStorageConfiguration</a>	Grants permission to describe the storage configuration for the AWS account	Read			
<a href="#">DescribeTimeSeries</a>	Grants permission to describe a time series	Read	<a href="#">asset</a>		
			<a href="#">time-series</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DisassociateAssets</a>	Grants permission to disassociate a child asset from a parent asset by a hierarchy	Write	<a href="#">asset*</a>		
<a href="#">DisassociateTimeSeriesFromAssetProperty</a>	Grants permission to disassociate a time series from an asset property	Write	<a href="#">asset*</a>		
			<a href="#">time-series*</a>		
<a href="#">EnableSiteWiseIntegration</a> [permission only]	Grants permission to allow IoT SiteWise integrate with other services	Write			
<a href="#">ExecuteAction</a>	Grants permission to execute actions	Write	<a href="#">asset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExecuteQuery</a>	Grants permission to execute query	Read	<a href="#">computation-model</a>		
<a href="#">GetAssetPropertyAggregates</a>	Grants permission to retrieve computed aggregates for an asset property	Read	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">GetAssetPropertyValue</a>	Grants permission to retrieve the latest value for an asset property	Read	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">GetAssetPropertyValueHistory</a>	Grants permission to retrieve the value history for an asset property	Read	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">GetInterpolatedAssetPropertyValues</a>	Grants permission to retrieve interpolated values for an asset property	Read	<a href="#">asset</a> <a href="#">time-series</a>		
<a href="#">InvokeAssistant</a>	Grants permission to invoke an assistant	Read			
<a href="#">ListAccessPolicies</a>	Grants permission to list all access policies for an identity or a resource	List	<a href="#">portal</a> <a href="#">project</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListActions</a>	Grants permission to list all actions	List	<a href="#">asset</a>		
			<a href="#">computation-model</a>		
<a href="#">ListAssetModelCompositeModels</a>	Grants permission to list all asset model composite models	List	<a href="#">asset-model*</a>		
<a href="#">ListAssetModelProperties</a>	Grants permission to list asset model properties	List	<a href="#">asset-model*</a>		
<a href="#">ListAssetModels</a>	Grants permission to list all asset models	List			
<a href="#">ListAssetProperties</a>	Grants permission to list asset properties	List	<a href="#">asset*</a>		
<a href="#">ListAssetRelationships</a>	Grants permission to list the asset relationship graph for an asset	List	<a href="#">asset*</a>		
<a href="#">ListAssets</a>	Grants permission to list all assets	List	<a href="#">asset-model</a>		
<a href="#">ListAssociatedAssets</a>	Grants permission to list all assets associated with an asset through a hierarchy	List	<a href="#">asset*</a>		
<a href="#">ListBulkImportJobs</a>	Grants permission to list bulk import jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCompositionRelationships</a>	Grants permission to list all asset model composition relationships	List	<a href="#">asset-model*</a>		
<a href="#">ListComputationModelDataBindingUsages</a>	Grants permission to list computation model data binding usages	List	<a href="#">asset</a> <a href="#">asset-model</a>		
<a href="#">ListComputationModelResolveToResources</a>	Grants permission to list computation model resolve to resources	List	<a href="#">computation-model*</a>		
<a href="#">ListComputationModels</a>	Grants permission to list all computation models	List			
<a href="#">ListDashboards</a>	Grants permission to list all dashboards in a project	List	<a href="#">project*</a>		
<a href="#">ListDatasets</a>	Grants permission to list all datasets	List			
<a href="#">ListExecutions</a>	Grants permission to list executions	List	<a href="#">asset</a> <a href="#">computation-model</a>		
<a href="#">ListGateways</a>	Grants permission to list all gateways	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInterfaceRelationships</a>	Grants permission to list all asset models that are enforced by an interface	List	<a href="#">asset-model*</a>		
<a href="#">ListPortals</a>	Grants permission to list all portals	List			
<a href="#">ListProjectAssets</a>	Grants permission to list all assets associated with a project	List	<a href="#">project*</a>		
<a href="#">ListProjects</a>	Grants permission to list all projects in a portal	List	<a href="#">portal*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for a resource	Read	<a href="#">access-policy</a>		
			<a href="#">asset</a>		
			<a href="#">asset-model</a>		
			<a href="#">computation-model</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
			<a href="#">gateway</a>		
			<a href="#">portal</a>		
			<a href="#">project</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">time-series</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTimeSeries</a>	Grants permission to list time series	List	<a href="#">asset</a>		
<a href="#">PutAssetModelInterfaceRelationship</a>	Grants permission to create a relationship between asset model and interface	Write	<a href="#">asset-model*</a>		
<a href="#">PutDefaultEncryptionConfiguration</a>	Grants permission to set the default encryption configuration for the AWS account	Write			
<a href="#">PutLoggingOptions</a>	Grants permission to set logging options for the AWS account	Write			
<a href="#">PutStorageConfiguration</a>	Grants permission to configure storage settings for the AWS account	Write			
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">access-policy</a>		
			<a href="#">asset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">asset-model</a>		
			<a href="#">computation-model</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
			<a href="#">gateway</a>		
			<a href="#">portal</a>		
			<a href="#">project</a>		
			<a href="#">time-series</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">access-policy</a>		
			<a href="#">asset</a>		
			<a href="#">asset-model</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">computation-model</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
			<a href="#">gateway</a>		
			<a href="#">portal</a>		
			<a href="#">project</a>		
			<a href="#">time-series</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessPolicy</a>	Grants permission to update an access policy	Write	<a href="#">access-policy*</a>		
<a href="#">UpdateAsset</a>	Grants permission to update an asset	Write	<a href="#">asset*</a>		
<a href="#">UpdateAssetModel</a>	Grants permission to update an asset model	Write	<a href="#">asset-model*</a>		
<a href="#">UpdateAssetModelCompositeModel</a>	Grants permission to update asset model composite model	Write	<a href="#">asset-model*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAssetModelPropertyRouting</a> [permission only]	Grants permission to update an AssetModel property routing	Write	<a href="#">asset-model*</a>		
<a href="#">UpdateAssetProperty</a>	Grants permission to update an asset property	Write	<a href="#">asset*</a>		
<a href="#">UpdateComputationModel</a>	Grants permission to update a computation model	Write	<a href="#">computation-model*</a>		
			<a href="#">asset</a>		
			<a href="#">asset-model</a>		
<a href="#">UpdateDashboard</a>	Grants permission to update a dashboard	Write	<a href="#">dashboard*</a>		
<a href="#">UpdateDataset</a>	Grants permission to update a dataset	Write	<a href="#">dataset*</a>		
<a href="#">UpdateGateway</a>	Grants permission to update a gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdateGatewayCapabilityConfiguration</a>	Grants permission to update a capability configuration for a gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdatePortal</a>	Grants permission to update a portal	Write	<a href="#">portal*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProject</a>	Grants permission to update a project	Write	<a href="#">project*</a>		

## Resource types defined by AWS IoT SiteWise

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">asset</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:asset/\${AssetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">asset-model</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:asset-model/\${AssetModelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">time-series</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:time-series/\${TimeSeriesId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">gateway</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:gateway/\${GatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">portal</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:portal/\${PortalId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">project</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:project/\${ProjectId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dashboard</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:dashboard/\${DashboardId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">access-policy</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:access-policy/\${AccessPolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dataset</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:dataset/\${DatasetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">computation-model</a>	arn:\${Partition}:iotsitewise:\${Region}:\${Account}:computation-model/\${ComputationModelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT SiteWise

AWS IoT SiteWise defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request	ArrayOfString
<a href="#">iotsitewi se:assetH ierarchyPath</a>	Filters access by an asset hierarchy path, which is the string of asset IDs in the asset's hierarchy, each separated by a forward slash	String
<a href="#">iotsitewi se:childAssetId</a>	Filters access by the ID of a child asset being associated with a parent asset	String
<a href="#">iotsitewi se:group</a>	Filters access by the ID of an AWS Single Sign-On group	String
<a href="#">iotsitewise:iam</a>	Filters access by the ID of an AWS IAM identity	String
<a href="#">iotsitewi se:isAsso ciatedWit hAssetProperty</a>	Filters access by data streams associated with or not associated with asset properties	String
<a href="#">iotsitewi se:portal</a>	Filters access by the ID of a portal	String
<a href="#">iotsitewi se:project</a>	Filters access by the ID of a project	String
<a href="#">iotsitewi se:propertyAlias</a>	Filters access by the property alias	String
<a href="#">iotsitewi se:propertyId</a>	Filters access by the ID of an asset property	String
<a href="#">iotsitewise:user</a>	Filters access by the ID of an AWS Single Sign-On user	String

## Actions, resources, and condition keys for AWS IoT TwinMaker

AWS IoT TwinMaker (service prefix: `iottwinmaker`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS IoT TwinMaker](#)
- [Resource types defined by AWS IoT TwinMaker](#)
- [Condition keys for AWS IoT TwinMaker](#)

## Actions defined by AWS IoT TwinMaker

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchPutPropertyValues</a>	Grants permission to set values for multiple time series properties	Write	<a href="#">workspace*</a>		iottwinmaker:GetComponentType  iottwinmaker:GetEntity  iottwinmaker:GetWorkspace

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">entity</a>		
<a href="#">CancelMetadataTransferJob</a>	Grants permission to cancel a metadata transfer job	Write	<a href="#">metadataTransferJob*</a>		
<a href="#">CreateComponentType</a>	Grants permission to create a componentType	Write	<a href="#">workspace*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateEntity</a>	Grants permission to create an entity	Write	<a href="#">workspace*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateMetadataTransferJob</a>	Grants permission to create a metadata transfer job	Write			
<a href="#">CreateScene</a>	Grants permission to create a scene	Write	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSyncJob</a>	Grants permission to create a sync job	Write	<a href="#">workspace*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkspace</a>	Grants permission to create a workspace	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteComponentType</a>	Grants permission to delete a componentType	Write	<a href="#">componentType*</a> <a href="#">workspace*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEntity</a>	Grants permission to delete an entity	Write	<a href="#">entity*</a> <a href="#">workspace*</a> -		
<a href="#">DeleteScene</a>	Grants permission to delete a scene	Write	<a href="#">scene*</a> <a href="#">workspace*</a> -		
<a href="#">DeleteSyncJob</a>	Grants permission to delete a sync job	Write	<a href="#">syncJob*</a> <a href="#">workspace*</a> -		
<a href="#">DeleteWorkspace</a>	Grants permission to delete a workspace	Write	<a href="#">workspace*</a> -		
<a href="#">ExecuteQuery</a>	Grants permission to execute query	Read	<a href="#">workspace*</a> -		
<a href="#">GetComponentType</a>	Grants permission to get a componentType	Read	<a href="#">componentType*</a> <a href="#">workspace*</a> -		
<a href="#">GetEntity</a>	Grants permission to get an entity	Read	<a href="#">entity*</a> <a href="#">workspace*</a> -		
<a href="#">GetMetadataTransferJob</a>	Grants permission to get a metadata transfer job	Read	<a href="#">metadataTransferJob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPricingPlan</a>	Grants permission to get pricing plan	Read			
<a href="#">GetPropertyValue</a>	Grants permission to retrieve the property values	Read	<a href="#">workspace</a> * -		iottwinmaker:GetComponentType  iottwinmaker:GetEntity  iottwinmaker:GetWorkspace
			<a href="#">componentType</a>		
			<a href="#">entity</a>		
<a href="#">GetPropertyValueHistory</a>	Grants permission to retrieve the time series value history	Read	<a href="#">workspace</a> * -		iottwinmaker:GetComponentType  iottwinmaker:GetEntity  iottwinmaker:GetWorkspace

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">componentType</a>		
			<a href="#">entity</a>		
<a href="#">GetScene</a>	Grants permission to get a scene	Read	<a href="#">scene*</a>		
			<a href="#">workspace*</a>		
<a href="#">GetSyncJob</a>	Grants permission to get a sync job	Read	<a href="#">syncJob*</a>		
			<a href="#">workspace*</a>		
<a href="#">GetWorkspace</a>	Grants permission to get a workspace	Read	<a href="#">workspace*</a>		
<a href="#">ListComponentTypes</a>	Grants permission to list all componentTypes in a workspace	List	<a href="#">workspace*</a>		
<a href="#">ListComponents</a>	Grants permission to list components attached to an entity	List	<a href="#">entity*</a>		
			<a href="#">workspace*</a>		
<a href="#">ListEntities</a>	Grants permission to list all entities in a workspace	List	<a href="#">workspace*</a>		
<a href="#">ListMetadataTransferJobs</a>	Grants permission to list all metadata transfer jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProperties</a>	Grants permission to list properties of an entity component	List	<a href="#">entity*</a> <a href="#">workspace</a> * -		
<a href="#">ListScenes</a>	Grants permission to list all scenes in a workspace	List	<a href="#">workspace</a> * -		
<a href="#">ListSyncJobs</a>	Grants permission to list all sync jobs in a workspace	List	<a href="#">workspace</a> * -		
<a href="#">ListSyncResources</a>	Grants permission to list all sync resources for a sync job	List	<a href="#">syncJob*</a> <a href="#">workspace</a> * -		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for a resource	List	<a href="#">componentType</a>		
			<a href="#">entity</a>		
			<a href="#">scene</a>		
			<a href="#">syncJob</a>		
			<a href="#">workspace</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListWorkspaces</a>	Grants permission to list all workspaces	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">componentType</a> <a href="#">entity</a> <a href="#">scene</a> <a href="#">syncJob</a> <a href="#">workspace</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">componentType</a> <a href="#">entity</a> <a href="#">scene</a> <a href="#">syncJob</a> <a href="#">workspace</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateComponentType</a>	Grants permission to update a componentType	Write	<a href="#">componentType*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workspace</a> * -		
<a href="#">UpdateEntity</a>	Grants permission to update an entity	Write	<a href="#">entity*</a>		
			<a href="#">workspace</a> * -		
<a href="#">UpdatePricingPlan</a>	Grants permission to update pricing plan	Write			
<a href="#">UpdateScene</a>	Grants permission to update a scene	Write	<a href="#">scene*</a>		
			<a href="#">workspace</a> * -		
<a href="#">UpdateWorkspace</a>	Grants permission to update a workspace	Write	<a href="#">workspace</a> * -		

## Resource types defined by AWS IoT TwinMaker

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">workspace</a>	arn:\${Partition}:iottwinmaker:\${Region}:\${Account}:workspace/\${WorkspaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">entity</a>	arn:\${Partition}:iottwinmaker:\${Region}:\${Account}:workspace/\${WorkspaceId}/entity/\${EntityId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">component Type</a>	arn:\${Partition}:iottwinmaker:\${Region}:\${Account}:workspace/\${WorkspaceId}/component-type/\${ComponentTypeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">scene</a>	arn:\${Partition}:iottwinmaker:\${Region}:\${Account}:workspace/\${WorkspaceId}/scene/\${SceneId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">syncJob</a>	arn:\${Partition}:iottwinmaker:\${Region}:\${Account}:workspace/\${WorkspaceId}/sync-job/\${SyncJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">metadataTransferJob</a>	arn:\${Partition}:iottwinmaker:\${Region}:\${Account}:metadata-transfer-job/\${MetadataTransferJobId}	

## Condition keys for AWS IoT TwinMaker

AWS IoT TwinMaker defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request	ArrayOfString
<a href="#">iottwinmaker:destinationType</a>	Filters access by destination type of metadata transfer job	ArrayOfString
<a href="#">iottwinmaker:linkedServices</a>	Filters access by workspace linked to services	ArrayOfString
<a href="#">iottwinmaker:sourceType</a>	Filters access by source type of metadata transfer job	ArrayOfString

## Actions, resources, and condition keys for AWS IoT Wireless

AWS IoT Wireless (service prefix: `iotwireless`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IoT Wireless](#)
- [Resource types defined by AWS IoT Wireless](#)
- [Condition keys for AWS IoT Wireless](#)



## Actions defined by AWS IoT Wireless

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateAwsAccountWithPartnerAccount</a>	Grants permission to link partner accounts with AWS account	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">AssociateMulticastGroupWithFuotaTask</a>	Grants permission to associate the MulticastGroup with FuotaTask	Write	<a href="#">FuotaTask*</a>  <a href="#">MulticastGroup*</a>		
<a href="#">AssociateWirelessDeviceWithFuotaTask</a>	Grants permission to associate the wireless device with FuotaTask	Write	<a href="#">FuotaTask*</a>  <a href="#">WirelessDevice*</a>		
<a href="#">AssociateWirelessDeviceWithMulticastGroup</a>	Grants permission to associate the WirelessDevice with MulticastGroup	Write	<a href="#">MulticastGroup*</a>  <a href="#">WirelessDevice*</a>		
<a href="#">AssociateWirelessDevice</a>	Grants permission to associate the wireless device	Write	<a href="#">WirelessDevice*</a>		iot:DescribeThing

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateThing</a>	Grants permission to associate a wirelessDevice with AWS IoT thing for a given wirelessDeviceId		<a href="#">thing*</a>		
<a href="#">AssociateWirelessGatewayWithCertificate</a>	Grants permission to associate a WirelessGateway with the IoT Core Identity certificate	Write	<a href="#">WirelessGateway*</a> <a href="#">cert*</a>		
<a href="#">AssociateWirelessGatewayWithThing</a>	Grants permission to associate the wireless gateway with AWS IoT thing for a given wirelessGatewayId	Write	<a href="#">WirelessGateway*</a> <a href="#">thing*</a>		iot:DescribeThing
<a href="#">CancelMulticastGroupSession</a>	Grants permission to cancel the MulticastGroup session	Write	<a href="#">MulticastGroup*</a>		
<a href="#">CreateDestination</a>	Grants permission to create a Destination resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDeviceProfile</a>	Grants permission to create a DeviceProfile resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFuotaTask</a>	Grants permission to create a FuotaTask resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateMulticastGroup</a>	Grants permission to create a MulticastGroup resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateNetworkAnalyzerConfiguration</a>	Grants permission to create a NetworkAnalyzerConfiguration resource	Write	<a href="#">MulticastGroup*</a>  <a href="#">WirelessDevice*</a>  <a href="#">WirelessGateway*</a>	   <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServiceProfile</a>	Grants permission to create a ServiceProfile resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWirelessDevice</a>	Grants permission to create a WirelessDevice resource with given Destination	Write	<a href="#">Destination</a>		
			<a href="#">DeviceProfile</a>		
			<a href="#">ServiceProfile</a>		
<a href="#">CreateWirelessGateway</a>	Grants permission to create a WirelessGateway resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWirelessGatewayTask</a>	Grants permission to create a task for a given WirelessGateway	Write	<a href="#">WirelessGateway*</a>		
<a href="#">CreateWirelessGatewayTaskDefinition</a>	Grants permission to create a WirelessGateway task definition	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDestination</a>	Grants permission to delete a Destination	Write	<a href="#">Destination*</a>		
<a href="#">DeleteDeviceProfile</a>	Grants permission to delete a DeviceProfile	Write	<a href="#">DeviceProfile*</a>		
<a href="#">DeleteFuotaTask</a>	Grants permission to delete the FuotaTask	Write	<a href="#">FuotaTask*</a>		
<a href="#">DeleteMulticastGroup</a>	Grants permission to delete the MulticastGroup	Write	<a href="#">MulticastGroup*</a>		
<a href="#">DeleteNetworkAnalyzerConfiguration</a>	Grants permission to delete the NetworkAnalyzerConfiguration	Write	<a href="#">NetworkAnalyzerConfiguration*</a>		
<a href="#">DeleteQueuedMessages</a>	Grants permission to delete QueuedMessages	Write			
<a href="#">DeleteServiceProfile</a>	Grants permission to delete a ServiceProfile	Write	<a href="#">ServiceProfile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWirelessDevice</a>	Grants permission to delete a WirelessDevice	Write	<a href="#">WirelessDevice*</a>		
<a href="#">DeleteWirelessDeviceImportTask</a>	Grants permission to delete the wireless device import task	Write	<a href="#">ImportTask*</a>		
<a href="#">DeleteWirelessGateway</a>	Grants permission to delete a WirelessGateway	Write	<a href="#">WirelessGateway*</a>		
<a href="#">DeleteWirelessGatewayTask</a>	Grants permission to delete task for a given WirelessGateway	Write	<a href="#">WirelessGateway*</a>		
<a href="#">DeleteWirelessGatewayTaskDefinition</a>	Grants permission to delete a WirelessGateway task definition	Write	<a href="#">WirelessGatewayTaskDefinition*</a>		
<a href="#">DeregisterWirelessDevice</a>	Grants permission to deregister wireless device	Write	<a href="#">WirelessDevice*</a>		
<a href="#">DisassociateAwsAccountFromPartnerAccount</a>	Grants permission to disassociate an AWS account from a partner account	Write	<a href="#">SidewalkAccount*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateMulticastGroupFromFuotaTask</a>	Grants permission to disassociate the MulticastGroup from FuotaTask	Write	<a href="#">FuotaTask*</a>		
			<a href="#">MulticastGroup*</a>		
<a href="#">DisassociateWirelessDeviceFromFuotaTask</a>	Grants permission to disassociate the wireless device from FuotaTask	Write	<a href="#">FuotaTask*</a>		
			<a href="#">WirelessDevice*</a>		
<a href="#">DisassociateWirelessDeviceFromMulticastGroup</a>	Grants permission to disassociate the wireless device from MulticastGroup	Write	<a href="#">MulticastGroup*</a>		
			<a href="#">WirelessDevice*</a>		
<a href="#">DisassociateWirelessDeviceFromThing</a>	Grants permission to disassociate a wireless device from a AWS IoT thing	Write	<a href="#">WirelessDevice*</a>		iot:DescribeThing
			<a href="#">thing*</a>		
<a href="#">DisassociateWirelessGatewayFromCertificate</a>	Grants permission to disassociate a WirelessGateway from a IoT Core Identity certificate	Write	<a href="#">WirelessGateway*</a>		
			<a href="#">cert*</a>		
<a href="#">DisassociateWirelessGatewayFromThing</a>	Grants permission to disassociate a WirelessGateway from a IoT Core thing	Write	<a href="#">WirelessGateway*</a>		iot:DescribeThing
			<a href="#">thing*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDestination</a>	Grants permission to get the Destination	Read	<a href="#">Destination*</a>		
<a href="#">GetDeviceProfile</a>	Grants permission to get the DeviceProfile	Read	<a href="#">DeviceProfile*</a>		
<a href="#">GetEventConfigurationByResourceTypes</a>	Grants permission to get event configuration by resource types	Read			
<a href="#">GetFuotaTask</a>	Grants permission to get the FuotaTask	Read	<a href="#">FuotaTask*</a>		
<a href="#">GetLogLevelsByResourceTypes</a>	Grants permission to get log levels by resource types	Read			
<a href="#">GetMetricConfiguration</a>	Grants permission to get metric configuration	Read			
<a href="#">GetMetrics</a>	Grants permission to get metrics	Read			
<a href="#">GetMulticastGroup</a>	Grants permission to get the MulticastGroup	Read	<a href="#">MulticastGroup*</a>		
<a href="#">GetMulticastGroupSession</a>	Grants permission to get the MulticastGroup session	Read	<a href="#">MulticastGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetNetworkAnalyzerConfiguration</a>	Grants permission to get the NetworkAnalyzerConfiguration	Read	<a href="#">NetworkAnalyzerConfiguration*</a>		
<a href="#">GetPartnerAccount</a>	Grants permission to get the associated PartnerAccount	Read	<a href="#">SidewalkAccount*</a>		
<a href="#">GetPosition</a>	Grants permission to get position for a given resource	Read	<a href="#">WirelessDevice</a>		
			<a href="#">WirelessGateway</a>		
<a href="#">GetPositionConfiguration</a>	Grants permission to get position configuration for a given resource	Read	<a href="#">WirelessDevice</a>		
			<a href="#">WirelessGateway</a>		
<a href="#">GetPositionEstimate</a>	Grants permission to get position estimate	Read			
<a href="#">GetResourceEventConfiguration</a>	Grants permission to get an event configuration for an identifier	Read	<a href="#">SidewalkAccount</a>		
			<a href="#">WirelessDevice</a>		
			<a href="#">WirelessGateway</a>		
<a href="#">GetResourceLogLevel</a>	Grants permission to get resource log level	Read	<a href="#">WirelessDevice</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">WirelessGateway</a>		
<a href="#">GetResourcePosition</a>	Grants permission to get position for a given resource	Read	<a href="#">WirelessDevice</a> <a href="#">WirelessGateway</a>		
<a href="#">GetServiceEndpoint</a>	Grants permission to retrieve the customer account specific endpoint for CUPS protocol connection or LoRaWAN Network Server (LNS) protocol connection, and optionally server trust certificate in PEM format	Read			
<a href="#">GetServiceProfile</a>	Grants permission to get the ServiceProfile	Read	<a href="#">ServiceProfile*</a>		
<a href="#">GetWirelessDevice</a>	Grants permission to get the WirelessDevice	Read	<a href="#">WirelessDevice*</a>		
<a href="#">GetWirelessDeviceImportTask</a>	Grants permission to get the wireless device import task	Read	<a href="#">ImportTask*</a>		
<a href="#">GetWirelessDeviceStatistics</a>	Grants permission to get statistics info for a given WirelessDevice	Read	<a href="#">WirelessDevice*</a>		
<a href="#">GetWirelessGateway</a>	Grants permission to get the WirelessGateway	Read	<a href="#">WirelessGateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetWirelessGatewayCertificate</a>	Grants permission to get the IoT Core Identity certificate id associated with the WirelessGateway	Read	<a href="#">WirelessGateway*</a>		
<a href="#">GetWirelessGatewayFirmwareInformation</a>	Grants permission to get Current firmware version and other information for the WirelessGateway	Read	<a href="#">WirelessGateway*</a>		
<a href="#">GetWirelessGatewayStatistics</a>	Grants permission to get statistics info for a given WirelessGateway	Read	<a href="#">WirelessGateway*</a>		
<a href="#">GetWirelessGatewayTask</a>	Grants permission to get the task for a given WirelessGateway	Read	<a href="#">WirelessGateway*</a>		
<a href="#">GetWirelessGatewayTaskDefinition</a>	Grants permission to get the given WirelessGateway task definition	Read	<a href="#">WirelessGatewayTaskDefinition*</a>		
<a href="#">ListDestinations</a>	Grants permission to list information of available Destinations based on the AWS account	Read			
<a href="#">ListDeviceProfiles</a>	Grants permission to list information of available DeviceProfiles based on the AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDevicesForWirelessDeviceImportTask</a>	Grants permission to list information of devices by wireless device import task based on the AWS account	Read	<a href="#">ImportTask*</a>		
<a href="#">ListEventConfigurations</a>	Grants permission to list information of available event configurations based on the AWS account	Read			
<a href="#">ListFuotaTasks</a>	Grants permission to list information of available FuotaTasks based on the AWS account	Read			
<a href="#">ListMulticastGroups</a>	Grants permission to list information of available MulticastGroups based on the AWS account	Read			
<a href="#">ListMulticastGroupsByFuotaTask</a>	Grants permission to list information of available MulticastGroups by FuotaTask based on the AWS account	Read	<a href="#">FuotaTask*</a>		
<a href="#">ListNetworkAnalyzerConfigurations</a>	Grants permission to list information of available NetworkAnalyzerConfigurations based on the AWS account	Read			
<a href="#">ListPartnerAccounts</a>	Grants permission to list the available partner accounts	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPositionConfigurations</a>	Grants permission to list information of available position configurations based on the AWS account	Read			
<a href="#">ListQueueMessages</a>	Grants permission to list the Queued Messages	Read			
<a href="#">ListServiceProfiles</a>	Grants permission to list information of available ServiceProfiles based on the AWS account	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for a given resource	Read	<a href="#">Destination</a>  <a href="#">DeviceProfile</a>  <a href="#">FuotaTask</a>  <a href="#">ImportTask</a>  <a href="#">MulticastGroup</a>  <a href="#">NetworkAnalyzerConfiguration</a>  <a href="#">ServiceProfile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">SidewalkAccount</a>		
			<a href="#">WirelessDevice</a>		
			<a href="#">WirelessGateway</a>		
			<a href="#">WirelessGatewayTaskDefinition</a>		
<a href="#">ListWirelessDeviceImportTasks</a>	Grants permission to list wireless device import tasks information of based on the AWS account	Read			
<a href="#">ListWirelessDevices</a>	Grants permission to list information of available WirelessDevices based on the AWS account	Read			
<a href="#">ListWirelessGatewayTaskDefinitions</a>	Grants permission to list information of available WirelessGateway task definitions based on the AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListWirelessGateways</a>	Grants permission to list information of available WirelessGateways based on the AWS account	Read			
<a href="#">PutPositionConfiguration</a>	Grants permission to put position configuration for a given resource	Write	<a href="#">WirelessDevice</a>		
<a href="#">PutResourceLogLevel</a>	Grants permission to put resource log level	Write	<a href="#">WirelessGateway</a>		
<a href="#">PutResourceLogLevel</a>	Grants permission to put resource log level	Write	<a href="#">WirelessDevice</a>		
<a href="#">PutResourceLogLevel</a>	Grants permission to put resource log level	Write	<a href="#">WirelessGateway</a>		
<a href="#">ResetAllResourceLogLevels</a>	Grants permission to reset all resource log levels	Write			
<a href="#">ResetResourceLogLevel</a>	Grants permission to reset resource log level	Write	<a href="#">WirelessDevice</a>		
<a href="#">ResetResourceLogLevel</a>	Grants permission to reset resource log level	Write	<a href="#">WirelessGateway</a>		
<a href="#">SendDataToMulticastGroup</a>	Grants permission to send data to the MulticastGroup	Write	<a href="#">MulticastGroup*</a>		
<a href="#">SendDataToWirelessDevice</a>	Grants permission to send the decrypted application data frame to the target device	Write	<a href="#">WirelessDevice*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartBulkAssociateWirelessDeviceWithMulticastGroup</a>	Grants permission to associate the WirelessDevices with MulticastGroup	Write	<a href="#">MulticastGroup*</a>		
<a href="#">StartBulkDisassociateWirelessDeviceFromMulticastGroup</a>	Grants permission to bulk disassociate the WirelessDevices from MulticastGroup	Write	<a href="#">MulticastGroup*</a>		
<a href="#">StartFuotaTask</a>	Grants permission to start the FuotaTask	Write	<a href="#">FuotaTask*</a>		
<a href="#">StartMulticastGroupSession</a>	Grants permission to start the MulticastGroup session	Write	<a href="#">MulticastGroup*</a>		
<a href="#">StartNetworkAnalyzerStream</a>	Grants permission to start NetworkAnalyzer stream	Write	<a href="#">NetworkAnalyzerConfiguration*</a>		
<a href="#">StartSingleWirelessDeviceImportTask</a>	Grants permission to start the single wireless device import task	Write	<a href="#">Destination</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartWirelessDeviceImportTask</a>	Grants permission to start the wireless device import task	Write	<a href="#">ImportTask*</a> <a href="#">Destination</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to tag a given resource	Tagging	<a href="#">Destination</a> <a href="#">DeviceProfile</a> <a href="#">FirmwareTask</a> <a href="#">ImportTask</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Multicast Group</a>		
			<a href="#">NetworkAnalyzerConfiguration</a>		
			<a href="#">ServiceProfile</a>		
			<a href="#">SidewalkAccount</a>		
			<a href="#">WirelessDevice</a>		
			<a href="#">WirelessGateway</a>		
			<a href="#">WirelessGatewayTaskDefinition</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TestWirelessDevice</a>	Grants permission to simulate a provisioned device to send an uplink data with payload of 'Hello'	Write	<a href="#">WirelessDevice*</a>		
<a href="#">UntagResource</a>	Grants permission to remove the given tags from the resource	Tagging	<a href="#">Destination</a>		
			<a href="#">DeviceProfile</a>		
			<a href="#">FuotaTask</a>		
			<a href="#">ImportTask</a>		
			<a href="#">MulticastGroup</a>		
			<a href="#">NetworkAnalyzerConfiguration</a>		
			<a href="#">ServiceProfile</a>		
			<a href="#">SidewalkAccount</a>		
			<a href="#">WirelessDevice</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">WirelessGateway</a>		
			<a href="#">WirelessGatewayTaskDefinition</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDestination</a>	Grants permission to update a Destination resource	Write	<a href="#">Destination*</a>		
<a href="#">UpdateEventConfigurationByResourceTypes</a>	Grants permission to update event configuration by resource types	Write			
<a href="#">UpdateFuotaTask</a>	Grants permission to update the FuotaTask	Write	<a href="#">FuotaTask*</a>		
<a href="#">UpdateLogLevelsByResourceTypes</a>	Grants permission to update log levels by resource types	Write			
<a href="#">UpdateMetricConfiguration</a>	Grants permission to update metric configuration	Write			
<a href="#">UpdateMulticastGroup</a>	Grants permission to update the MulticastGroup	Write	<a href="#">MulticastGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNetworkAnalyzerConfiguration</a>	Grants permission to update the NetworkAnalyzerConfiguration	Write	<a href="#">MulticastGroup*</a> <a href="#">NetworkAnalyzerConfiguration*</a> <a href="#">WirelessDevice*</a> <a href="#">WirelessGateway*</a>		
<a href="#">UpdatePartnerAccount</a>	Grants permission to update a partner account	Write	<a href="#">SidewalkAccount*</a>		
<a href="#">UpdatePosition</a>	Grants permission to update position for a given resource	Write	<a href="#">WirelessDevice</a> <a href="#">WirelessGateway</a>		
<a href="#">UpdateResourceEventConfiguration</a>	Grants permission to update an event configuration for an identifier	Write	<a href="#">SidewalkAccount</a> <a href="#">WirelessDevice</a> <a href="#">WirelessGateway</a>		
<a href="#">UpdateResourcePosition</a>	Grants permission to update position for a given resource	Write	<a href="#">WirelessDevice</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">WirelessGateway</a>		
<a href="#">UpdateWirelessDevice</a>	Grants permission to update a WirelessDevice resource	Write	<a href="#">WirelessDevice*</a>		
			<a href="#">Destination</a>		
			<a href="#">DeviceProfile</a>		
			<a href="#">ServiceProfile</a>		
<a href="#">UpdateWirelessDeviceImportTask</a>	Grants permission to update a wireless device import task	Write	<a href="#">ImportTask*</a>		
<a href="#">UpdateWirelessGateway</a>	Grants permission to update a WirelessGateway resource	Write	<a href="#">WirelessGateway*</a>		

## Resource types defined by AWS IoT Wireless

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">WirelessDevice</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:WirelessDevice/\${WirelessDeviceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">WirelessGateway</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:WirelessGateway/\${WirelessGatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DeviceProfile</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:DeviceProfile/\${DeviceProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ServiceProfile</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:ServiceProfile/\${ServiceProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Destination</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:Destination/\${DestinationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SidewalkAccount</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:SidewalkAccount/\${SidewalkAccountId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">WirelessGatewayTaskDefinition</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:WirelessGatewayTaskDefinition/\${WirelessGatewayTaskDefinitionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">FuotaTask</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:FuotaTask/\${FuotaTaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">Multicast Group</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:MulticastGroup/\${MulticastGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">NetworkAnalyzerConfiguration</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:NetworkAnalyzerConfiguration/\${NetworkAnalyzerConfigurationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">thing</a>	arn:\${Partition}:iot:\${Region}:\${Account}:thing/\${ThingName}	
<a href="#">cert</a>	arn:\${Partition}:iot:\${Region}:\${Account}:cert/\${Certificate}	
<a href="#">ImportTask</a>	arn:\${Partition}:iotwireless:\${Region}:\${Account}:ImportTask/\${ImportTaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS IoT Wireless

AWS IoT Wireless defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key that is present in the request that the user makes to IoT Wireless	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key component of a tag attached to an IoT Wireless resource	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names associated with the resource in the request	ArrayOfString
<a href="#">iotwireless:DestinationName</a>	Filters access by destination name associated with the IoT Wireless resource	String
<a href="#">iotwireless:DeviceProfileId</a>	Filters access by device profile id associated with the IoT Wireless resource	String
<a href="#">iotwireless:ServiceProfileId</a>	Filters access by service profile id associated with the IoT Wireless resource	String

## Actions, resources, and condition keys for AWS IQ

AWS IQ (service prefix: `iq`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IQ](#)
- [Resource types defined by AWS IQ](#)
- [Condition keys for AWS IQ](#)

## Actions defined by AWS IQ

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptCall</a>	Grants permission to accept an incoming voice/video call	Write	<a href="#">call*</a>		
<a href="#">ApprovePaymentRequest</a>	Grants permission to approve a payment request	Write	<a href="#">paymentRequest*</a>		
<a href="#">ApproveProposal</a>	Grants permission to approve a proposal	Write	<a href="#">proposal*</a>		
<a href="#">ArchiveConversation</a>	Grants permission to archive a conversation	Write	<a href="#">conversation*</a>		
<a href="#">CompleteProposal</a>	Grants permission to complete a proposal	Write	<a href="#">proposal*</a>		
<a href="#">CreateConversation</a>	Grants permission to respond to a request or send a direct message to initiate a conversation	Write			
<a href="#">CreateExpert</a>	Grants permission to create an expert profile	Write			
<a href="#">CreateListing</a>	Grants permission to create a listing	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMilestoneProposal</a>	Grants permission to create a milestone proposal	Write			
<a href="#">CreatePaymentRequest</a>	Grants permission to create a payment request	Write			
<a href="#">CreateProject</a>	Grants permission to submit new requests	Write			
<a href="#">CreateRequest</a>	Grants permission to submit new requests	Write			
<a href="#">CreateScheduledProposal</a>	Grants permission to create a scheduled proposal	Write			
<a href="#">CreateSeller</a>	Grants permission to create a seller profile	Write			
<a href="#">CreateUpfrontProposal</a>	Grants permission to create an upfront proposal	Write			
<a href="#">DeclineCall</a>	Grants permission to decline an incoming voice/video call	Write	<a href="#">call*</a>		
<a href="#">DeleteAttachment</a>	Grants permission to delete an existing attachment	Write	<a href="#">attachment*</a>		
<a href="#">DisableIndividualPublicProfile</a>	Grants permission to disable individual public profile page	Write	<a href="#">expert*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DownloadAttachment</a>	Grants permission to download existing attachment	Read	<a href="#">attachment*</a>		
<a href="#">EnableIndividualPublicProfile</a>	Grants permission to enable individual public profile page	Write	<a href="#">expert*</a>		
<a href="#">EndCall</a>	Grants permission to end a voice/video call	Write	<a href="#">call*</a>		
<a href="#">GetBuyer</a>	Grants permission to read buyer information	Read	<a href="#">buyer*</a>		
<a href="#">GetCall</a>	Grants permission to read details of a voice/video call	Read	<a href="#">call*</a>		
<a href="#">GetChatInfo</a>	Grants permission to read the chat environment details about a conversation	Read	<a href="#">conversation*</a>		
<a href="#">GetChatMessages</a>	Grants permission to read chat messages in a conversation	Read	<a href="#">conversation*</a>		
<a href="#">GetChatToken</a>	Grants permission to request a websocket token for the conversation notifications	Read	<a href="#">token*</a>		
<a href="#">GetCompanyChatMessages</a>	Grants permission to read chat messages in a company conversation	Read	<a href="#">conversation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCompanyProfile</a>	Grants permission to read a company profile	Read	<a href="#">company*</a>		
<a href="#">GetConversation</a>	Grants permission to read details of a conversation	Read	<a href="#">conversation*</a>		
<a href="#">GetExpert</a>	Grants permission to read expert information	Read	<a href="#">expert*</a>		
<a href="#">GetListing</a>	Grants permission to read a listing	Read	<a href="#">listing*</a>		
<a href="#">GetMarketplaceSeller</a>	Grants permission to read a seller profile information	Read	<a href="#">seller*</a>		
<a href="#">GetPaymentRequest</a>	Grants permission to read a payment request	Read	<a href="#">paymentRequest*</a>		
<a href="#">GetProposal</a>	Grants permission to read a proposal	Read	<a href="#">proposal*</a>		
<a href="#">GetRequest</a>	Grants permission to get a created request	Read	<a href="#">request*</a>		
<a href="#">GetReview</a>	Grants permission to read a review for an expert	Read	<a href="#">seller*</a>		
<a href="#">HideRequest</a>	Grants permission to hide a request	Write	<a href="#">request*</a>		
<a href="#">InitiateCall</a>	Grants permission to start a voice/video call	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LinkAwsCertification</a>	Grants permission to link an AWS certification to individual profile	Write	<a href="#">expert*</a>		
<a href="#">ListAttachments</a>	Grants permission to list existing attachments	List	<a href="#">attachment*</a>		
<a href="#">ListConversations</a>	Grants permission to list existing conversations	Read	<a href="#">conversation*</a>		
<a href="#">ListExpertAccessLogs</a>	Grants permission to list access logs of expert activity	Read	<a href="#">permission*</a>		
<a href="#">ListListings</a>	Grants permission to list listings	Read	<a href="#">listing*</a>		
<a href="#">ListPaymentRequests</a>	Grants permission to list payment requests	Read	<a href="#">paymentRequest</a>		
			<a href="#">paymentSchedule</a>		
<a href="#">ListProposals</a>	Grants permission to list proposals	Read	<a href="#">proposal*</a>		
<a href="#">ListRequests</a>	Grants permission to list requests that are created	Read	<a href="#">request*</a>		
<a href="#">ListReviews</a>	Grants permission to list reviews for an expert	Read	<a href="#">seller*</a>		
<a href="#">MarkChatMessageRead</a>	Grants permission to mark a message as read in a conversation	Write	<a href="#">conversation*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectPaymentRequest</a>	Grants permission to reject a payment request	Write	<a href="#">paymentRequest*</a>		
<a href="#">RejectProposal</a>	Grants permission to reject a proposal	Write	<a href="#">proposal*</a>		
<a href="#">SendCompanyChatMessage</a>	Grants permission to send a message in a conversation as a company	Write	<a href="#">conversation*</a>		
<a href="#">SendIndividualChatMessage</a>	Grants permission to send a message in a conversation as an individual	Write	<a href="#">conversation*</a>		
<a href="#">UnarchiveConversation</a>	Grants permission to unarchive a conversation	Write	<a href="#">conversation*</a>		
<a href="#">UnlinkAwsCertification</a>	Grants permission to unlink an AWS certification from individual profile	Write	<a href="#">expert*</a>		
<a href="#">UpdateCompanyProfile</a>	Grants permission to update a company profile	Write	<a href="#">company*</a>		
<a href="#">UpdateConversationMembers</a>	Grants permission to add more participants into a conversation	Write	<a href="#">conversation*</a>		
<a href="#">UpdateExpert</a>	Grants permission to update an expert information	Write	<a href="#">expert*</a>		
<a href="#">UpdateListing</a>	Grants permission to update a listing	Write	<a href="#">listing*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRequest</a>	Grants permission to update a request	Write	<a href="#">request*</a>		
<a href="#">UploadAttachment</a>	Grants permission to upload an attachment	Write			
<a href="#">WithdrawPaymentRequest</a>	Grants permission to withdraw a payment request	Write	<a href="#">paymentRequest*</a>		
<a href="#">WithdrawProposal</a>	Grants permission to withdraw a proposal	Write	<a href="#">proposal*</a>		
<a href="#">WriteReview</a>	Grants permission to write a review for an expert	Write	<a href="#">seller*</a>		

## Resource types defined by AWS IQ

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">conversation</a>	arn:\${Partition}:iq:\${Region}::conversation/\${ConversationId}	
<a href="#">buyer</a>	arn:\${Partition}:iq:\${Region}::buyer/\${BuyerId}	

Resource types	ARN	Condition keys
<a href="#">expert</a>	arn:\${Partition}:iq:\${Region}::expert/\${ExpertId}	
<a href="#">call</a>	arn:\${Partition}:iq:\${Region}::call/\${CallId}	
<a href="#">token</a>	arn:\${Partition}:iq:\${Region}::token/\${TokenId}	
<a href="#">proposal</a>	arn:\${Partition}:iq:\${Region}::proposal/\${ConversationId}/\${ProposalId}	
<a href="#">paymentRequest</a>	arn:\${Partition}:iq:\${Region}::paymentRequest/\${ConversationId}/\${ProposalId}/\${PaymentRequestId}	
<a href="#">paymentSchedule</a>	arn:\${Partition}:iq:\${Region}::paymentSchedule/\${ConversationId}/\${ProposalId}/\${VersionId}	
<a href="#">seller</a>	arn:\${Partition}:iq:\${Region}::seller/\${SellerAwsAccountId}	
<a href="#">company</a>	arn:\${Partition}:iq:\${Region}::company/\${CompanyId}	
<a href="#">request</a>	arn:\${Partition}:iq:\${Region}::request/\${RequestId}	
<a href="#">listing</a>	arn:\${Partition}:iq:\${Region}::listing/\${ListingId}	
<a href="#">attachment</a>	arn:\${Partition}:iq:\${Region}::attachment/\${AttachmentId}	

Resource types	ARN	Condition keys
<a href="#">permission</a>	arn:\${Partition}:iq-permission:\${Region}::permission/\${PermissionRequestId}	

## Condition keys for AWS IQ

IQ has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS IQ Permissions

AWS IQ Permissions (service prefix: `iq-permission`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS IQ Permissions](#)
- [Resource types defined by AWS IQ Permissions](#)
- [Condition keys for AWS IQ Permissions](#)

## Actions defined by AWS IQ Permissions


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApproveAccessGrant</a>	Grants permission to approve a permission request	Write	<a href="#">permission*</a>		
<a href="#">ApprovePermissionRequest</a>	Grants permission to approve a permission request	Write	<a href="#">permission*</a>		
<a href="#">AssumePermissionRole</a>	Grants permission to obtain a set of temporary security credentials for experts which they can use to access buyers' AWS resources	Write	<a href="#">permission*</a>		
<a href="#">CreatePermissionRequest</a>	Grants permission to create a permission request	Write	<a href="#">permission*</a>		
<a href="#">GetPermissionRequest</a>	Grants permission to get a permission request	Read	<a href="#">permission*</a>		
<a href="#">ListPermissionRequests</a>	Grants permission to list permission requests	Read	<a href="#">permission*</a>		
<a href="#">RejectPermissionRequest</a>	Grants permission to reject a permission request	Write	<a href="#">permission*</a>		
<a href="#">RevokePermissionRequest</a>	Grants permission to revoke a permission request which was previously approved	Write	<a href="#">permission*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">WithdrawPermissionRequest</a>	Grants permission to withdraw a permission request that has not been approved or declined	Write	<a href="#">permission*</a>		

## Resource types defined by AWS IQ Permissions

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">permission</a>	arn:\${Partition}:iq-permission:\${Region}::permission/\${PermissionRequestId}	

## Condition keys for AWS IQ Permissions

IQ Permission has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Kendra

Amazon Kendra (service prefix: `kendra`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Kendra](#)
- [Resource types defined by Amazon Kendra](#)
- [Condition keys for Amazon Kendra](#)

## Actions defined by Amazon Kendra

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.



The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateEntitiesToExperience</a>	Grants permission to put principal mapping in index	Write	<a href="#">experience*</a> <a href="#">index*</a>		
<a href="#">AssociatePersonasToEntities</a>	Defines the specific permissions of users or groups in your AWS SSO identity source with access to your Amazon Kendra experience	Write	<a href="#">experience*</a> <a href="#">index*</a>		
<a href="#">BatchDeleteDocument</a>	Grants permission to batch delete document	Write	<a href="#">index*</a>		
<a href="#">BatchDeleteFeaturedResultsSet</a>	Grants permission to delete a featured results set	Write	<a href="#">featured-results-set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">index*</a>		
<a href="#">BatchGetDocumentStatus</a>	Grants permission to do batch get document status	Read	<a href="#">index*</a>		
<a href="#">BatchPutDocument</a>	Grants permission to batch put document	Write	<a href="#">index*</a>		
<a href="#">ClearQuerySuggestions</a>	Grants permission to clear out the suggestions for a given index, generated so far	Write	<a href="#">index*</a>		
<a href="#">CreateAccessControlConfiguration</a>	Grants permission to create an access control configuration	Write	<a href="#">index*</a>		
<a href="#">CreateDataSource</a>	Grants permission to create a data source	Write	<a href="#">index*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateExperience</a>	Creates an Amazon Kendra experience such as a search application	Write	<a href="#">index*</a>		
<a href="#">CreateFaq</a>	Grants permission to create an Faq	Write	<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFeaturedResultsSet</a>	Grants permission to create a featured results set	Write	<a href="#">index*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIndex</a>	Grants permission to create an Index	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateQuerySuggestionsBlockList</a>	Grants permission to create a QuerySuggestions BlockList	Write	<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateThesaurus</a>	Grants permission to create a Thesaurus	Write	<a href="#">index*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccessControlConfiguration</a>	Grants permission to delete an access control configuration	Write	<a href="#">access-control-configuration*</a> <a href="#">index*</a>		
<a href="#">DeleteDataSource</a>	Grants permission to delete a data source	Write	<a href="#">data-source*</a> <a href="#">index*</a>		
<a href="#">DeleteExperience</a>	Deletes your Amazon Kendra experience such as a search application	Write	<a href="#">experience*</a> <a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFaq</a>	Grants permission to delete an Faq	Write	<a href="#">faq*</a>		
			<a href="#">index*</a>		
<a href="#">DeleteIndex</a>	Grants permission to delete an Index	Write	<a href="#">index*</a>		
<a href="#">DeletePrincipalMapping</a>	Grants permission to delete principal mapping from index	Write	<a href="#">index*</a>		
			<a href="#">data-source</a>		
<a href="#">DeleteQuerySuggestionsBlockList</a>	Grants permission to delete a QuerySuggestions BlockList	Write	<a href="#">index*</a>		
			<a href="#">query-suggestions-block-list*</a>		
<a href="#">DeleteThesaurus</a>	Grants permission to delete a Thesaurus	Write	<a href="#">index*</a>		
			<a href="#">thesaurus*</a>		
<a href="#">DescribeAccessControlConfiguration</a>	Grants permission to describe an access control configuration	Read	<a href="#">access-control-configuration*</a>		
			<a href="#">index*</a>		
<a href="#">DescribeDataSource</a>	Grants permission to describe a data source	Read	<a href="#">data-source*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">index*</a>		
<a href="#">DescribeExperience</a>	Gets information about your Amazon Kendra experience such as a search application	Read	<a href="#">experience*</a>		
			<a href="#">index*</a>		
<a href="#">DescribeFaq</a>	Grants permission to describe an Faq	Read	<a href="#">faq*</a>		
			<a href="#">index*</a>		
<a href="#">DescribeFeaturedResultsSet</a>	Grants permission to describe a featured results set	Read	<a href="#">featured-results-set*</a>		
			<a href="#">index*</a>		
<a href="#">DescribeIndex</a>	Grants permission to describe an Index	Read	<a href="#">index*</a>		
<a href="#">DescribePrincipalMapping</a>	Grants permission to describe principal mapping from index	Read	<a href="#">index*</a>		
			<a href="#">data-source</a>		
<a href="#">DescribeQuerySuggestionsBlockList</a>	Grants permission to describe a QuerySuggestions BlockList	Read	<a href="#">index*</a>		
			<a href="#">query-suggestions-block-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeQuerySuggestionsConfig</a>	Grants permission to describe the query suggestions configuration for an index	Read	<a href="#">index*</a>		
<a href="#">DescribeThesaurus</a>	Grants permission to describe a Thesaurus	Read	<a href="#">index*</a> <a href="#">thesaurus*</a> -		
<a href="#">DisassociateEntitiesFromExperience</a>	Prevents users or groups in your AWS SSO identity source from accessing your Amazon Kendra experience	Write	<a href="#">experience*</a> <a href="#">index*</a>		
<a href="#">DisassociatePersonasFromEntities</a>	Removes the specific permissions of users or groups in your AWS SSO identity source with access to your Amazon Kendra experience	Write	<a href="#">experience*</a> <a href="#">index*</a>		
<a href="#">GetQuerySuggestions</a>	Grants permission to get suggestions for a query prefix	Read	<a href="#">index*</a>		
<a href="#">GetSnapshots</a>	Retrieves search metrics data	Read	<a href="#">index*</a>		
<a href="#">ListAccessControlConfigurations</a>	Grants permission to list the access control configurations	List	<a href="#">index*</a>		
<a href="#">ListDataSourceSyncJobs</a>	Grants permission to get Data Source sync job history	List	<a href="#">data-source*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">index*</a>		
<a href="#">ListDataSources</a>	Grants permission to list the data sources	List	<a href="#">index*</a>		
<a href="#">ListEntityPersonas</a>	Lists specific permissions of users and groups with access to your Amazon Kendra experience	List	<a href="#">experience*</a>		
			<a href="#">index*</a>		
<a href="#">ListExperienceEntities</a>	Lists users or groups in your AWS SSO identity source that are granted access to your Amazon Kendra experience	List	<a href="#">experience*</a>		
			<a href="#">index*</a>		
<a href="#">ListExperiences</a>	Lists one or more Amazon Kendra experiences. You can create an Amazon Kendra experience such as a search application	List	<a href="#">index*</a>		
<a href="#">ListFaqs</a>	Grants permission to list the Faqs	List	<a href="#">index*</a>		
<a href="#">ListFeaturedResultsSets</a>	Grants permission to list the featured results sets	List	<a href="#">index*</a>		
<a href="#">ListGroupOlderThanOrderingId</a>	Grants permission to list groups that are older than an ordering id	List	<a href="#">index*</a>		
			<a href="#">data-source</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIndices</a>	Grants permission to list the indexes	List			
<a href="#">ListQuerySuggestionsBlockLists</a>	Grants permission to list the QuerySuggestions BlockLists	List	<a href="#">index*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">data-source</a>		
			<a href="#">faq</a>		
			<a href="#">featured-results-set</a>		
			<a href="#">index</a>		
			<a href="#">query-suggestions-block-list</a>		
			<a href="#">thesaurus</a>		
<a href="#">ListThesauri</a>	Grants permission to list the Thesauri	List	<a href="#">index*</a>		
<a href="#">PutPrincipalMapping</a>	Grants permission to put principal mapping in index	Write	<a href="#">index*</a>		
			<a href="#">data-source</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Query</a>	Grants permission to query documents and faqs	Read	<a href="#">index*</a>		
<a href="#">Retrieve</a>	Grants permission to retrieve relevant content from an index	Read	<a href="#">index*</a>		
<a href="#">StartDataSourceSyncJob</a>	Grants permission to start Data Source sync job	Write	<a href="#">data-source*</a> <a href="#">index*</a>		
<a href="#">StopDataSourceSyncJob</a>	Grants permission to stop Data Source sync job	Write	<a href="#">data-source*</a> <a href="#">index*</a>		
<a href="#">SubmitFeedback</a>	Grants permission to send feedback about a query results	Write	<a href="#">index*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">data-source</a> <a href="#">faq</a> <a href="#">featured-results-set</a> <a href="#">index</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">query-suggestions-block-list</a>		
			<a href="#">thesaurus</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the tag with the given key from a resource	Tagging	<a href="#">data-source</a>		
			<a href="#">faq</a>		
			<a href="#">featured-results-set</a>		
			<a href="#">index</a>		
			<a href="#">query-suggestions-block-list</a>		
			<a href="#">thesaurus</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessControlConfiguration</a>	Grants permission to update an access control configuration	Write	<a href="#">access-control-configuration*</a>		
			<a href="#">index*</a>		
<a href="#">UpdateDataSource</a>	Grants permission to update a data source	Write	<a href="#">data-source*</a>		
			<a href="#">index*</a>		
<a href="#">UpdateExperience</a>	Updates your Amazon Kendra experience such as a search application	Write	<a href="#">index*</a>		
<a href="#">UpdateFeaturedResultsSet</a>	Grants permission to update a featured results set	Write	<a href="#">featured-results-set*</a>		
			<a href="#">index*</a>		
<a href="#">UpdateIndex</a>	Grants permission to update an Index	Write	<a href="#">index*</a>		
<a href="#">UpdateQuerySuggestionsBlockList</a>	Grants permission to update a QuerySuggestions BlockList	Write	<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">query-suggestions-block-list*</a>		
<a href="#">UpdateQuerySuggestionsConfig</a>	Grants permission to update the query suggestions configuration for an index	Write	<a href="#">index*</a>		
<a href="#">UpdateThesaurus</a>	Grants permission to update a thesaurus	Write	<a href="#">index*</a>		
			<a href="#">thesaurus*</a>		

## Resource types defined by Amazon Kendra

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">index</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">data-source</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/data-source/\${DataSourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">faq</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/faq/\${FaqId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">experience</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/experience/\${ExperienceId}	
<a href="#">thesaurus</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/thesaurus/\${ThesaurusId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">query-suggestions-block-list</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/query-suggestions-block-list/\${QuerySuggestionSBlockListId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">featured-results-set</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/featured-results-set/\${FeaturedResultsSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">access-control-configuration</a>	arn:\${Partition}:kendra:\${Region}:\${Account}:index/\${IndexId}/access-control-configuration/\${AccessControlConfigurationId}	

## Condition keys for Amazon Kendra

Amazon Kendra defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Kendra Intelligent Ranking

Amazon Kendra Intelligent Ranking (service prefix: `kendra-ranking`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Kendra Intelligent Ranking](#)
- [Resource types defined by Amazon Kendra Intelligent Ranking](#)
- [Condition keys for Amazon Kendra Intelligent Ranking](#)

## Actions defined by Amazon Kendra Intelligent Ranking

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRescoreExecutionPlan</a>	Grants permission to create a RescoreExecutionPlan	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteRescoreExecutionPlan</a>	Grants permission to delete a RescoreExecutionPlan	Write	<a href="#">rescore-execution-plan*</a>		
<a href="#">DescribeRescoreExecutionPlan</a>	Grants permission to describe a RescoreExecutionPlan	Read	<a href="#">rescore-execution-plan*</a>		
<a href="#">ListRescoreExecutionPlans</a>	Grants permission to list all RescoreExecutionPlans	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">rescore-execution-plan</a>		
<a href="#">Rescore</a>	Grants permission to Rescore documents with Kendra Intelligent Ranking	Read	<a href="#">rescore-execution-plan*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">rescore-execution-plan</a>	<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the tag with the given key from a resource	Tagging	<a href="#">rescore-execution-plan</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateRescoreExecutionPlan</a>	Grants permission to update a RescoreExecutionPlan	Write	<a href="#">rescore-execution-plan*</a>		

## Resource types defined by Amazon Kendra Intelligent Ranking

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">rescore-execution-plan</a>	arn:\${Partition}:kendra-ranking:\${Region}:\${Account}:rescore-execution-plan/\${RescoreExecutionPlanId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Kendra Intelligent Ranking

Amazon Kendra Intelligent Ranking defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Key Management Service

AWS Key Management Service (service prefix: kms) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Key Management Service](#)

- [Resource types defined by AWS Key Management Service](#)
- [Condition keys for AWS Key Management Service](#)

## Actions defined by AWS Key Management Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelKeyDeletion</a>	Controls permission to cancel the scheduled deletion of an AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">ConnectCustomKeyStore</a>	Controls permission to connect or reconnect a custom key store to its associated AWS CloudHSM cluster or external key manager outside of AWS	Write		<a href="#">kms:CallerAccount</a>	
<a href="#">CreateAlias</a>	Controls permission to create an alias for an AWS KMS key. Aliases are optional friendly names that you can associate with KMS keys	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomKeyStore</a>	Controls permission to create a custom key store that is backed by an AWS CloudHSM cluster or an external key manager outside of AWS	Write		<a href="#">kms:CallerAccount</a>	cloudhsm:DescribeClusters  ec2:DescribeVpcEndpointServices  iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGrant</a>	Controls permission to add a grant to an AWS KMS key. You can use grants to add permissions without changing the key policy or IAM policy	Permissions management	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a>  <a href="#">kms:EncryptionContext:\${EncryptionContextKey}</a>  <a href="#">kms:EncryptionContextKeys</a>  <a href="#">kms:GrantConstraintType</a>  <a href="#">kms:GrantPrincipal</a>  <a href="#">kms:GrantIsForResource</a>  <a href="#">kms:GrantOperation</a>  <a href="#">kms:RetiringPrincipal</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:ViaService</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateKey</a>	Controls permission to create an AWS KMS key that can be used to protect data keys and other sensitive information	Write		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">kms:BypassPolicyLockoutSafetyCheck</a> <a href="#">kms:CallerAccount</a> <a href="#">kms:KeySpec</a> <a href="#">kms:KeyUsage</a> <a href="#">kms:KeyOrigin</a> <a href="#">kms:MultiRegion</a>	iam:CreateServiceLinkedRole kms:PutKeyPolicy kms:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:MultiRegionKeyType</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Decrypt</a>	Controls permission to decrypt ciphertext that was encrypted under an AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext:\${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:RecipientAttestation:ImageSha384</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR0</a> <a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR</a> <a href="#">1</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">2</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">3</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">4</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">5</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">6</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR7</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR8</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR9</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR10</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR11</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR12</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR13</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR14</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR15</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR16</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR17</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR18</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR19</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR20</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR21</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR22</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR23</a> <a href="#">kms:RecipientAttestation:PCR0</a> <a href="#">kms:RecipientAttestation:PCR1</a> <a href="#">kms:RecipientAttestation:PCR2</a> <a href="#">kms:RecipientAttestation:PCR3</a> <a href="#">kms:RecipientAttestation:PCR4</a> <a href="#">kms:RecipientAttestation:PCR5</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR6</a> <a href="#">kms:RecipientAttestation:PCR7</a> <a href="#">kms:RecipientAttestation:PCR8</a> <a href="#">kms:RecipientAttestation:PCR9</a> <a href="#">kms:RecipientAttestation:PCR10</a> <a href="#">kms:RecipientAttestation:PCR11</a> <a href="#">kms:RecipientAttestation:PCR12</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR13</a> <a href="#">kms:RecipientAttestation:PCR14</a> <a href="#">kms:RecipientAttestation:PCR15</a> <a href="#">kms:RecipientAttestation:PCR16</a> <a href="#">kms:RecipientAttestation:PCR17</a> <a href="#">kms:RecipientAttestation:PCR18</a> <a href="#">kms:RecipientAttestation:PCR19</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR20</a> <a href="#">kms:RecipientAttestation:PCR21</a> <a href="#">kms:RecipientAttestation:PCR22</a> <a href="#">kms:RecipientAttestation:PCR23</a> <a href="#">kms:RecipientAttestation:PCR24</a> <a href="#">kms:RecipientAttestation:PCR25</a> <a href="#">kms:RecipientAttestation:PCR26</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR27</a> <a href="#">kms:RecipientAttestation:PCR28</a> <a href="#">kms:RecipientAttestation:PCR29</a> <a href="#">kms:RecipientAttestation:PCR30</a> <a href="#">kms:RecipientAttestation:PCR31</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAlias</a>	Controls permission to delete an alias. Aliases are optional friendly names that you can associate with AWS KMS keys	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">DeleteCustomKeyStore</a>	Controls permission to delete a custom key store	Write		<a href="#">kms:CallerAccount</a>	
<a href="#">DeleteImportedKeyMaterial</a>	Controls permission to delete cryptographic material that you imported into an AWS KMS key. This action makes the key unusable	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">DeriveSharedSecret</a>	Controls permission to use the specified AWS KMS key to derive shared secrets	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:KeyAgreementAlgorithm</a> <a href="#">kms:RecipientAttestation:ImageSha384</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR0</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR1</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR2</a> <a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR</a> <a href="#">3</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">4</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">5</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">6</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">7</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">8</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR9</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR10</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR11</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR12</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR13</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR14</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR15</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR16</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR17</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR18</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR19</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR20</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR21</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR22</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR23</a>	
				<a href="#">kms:RecipientAttestation:PCR0</a>	
				<a href="#">kms:RecipientAttestation:PCR1</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR2</a> <a href="#">kms:RecipientAttestation:PCR3</a> <a href="#">kms:RecipientAttestation:PCR4</a> <a href="#">kms:RecipientAttestation:PCR5</a> <a href="#">kms:RecipientAttestation:PCR6</a> <a href="#">kms:RecipientAttestation:PCR7</a> <a href="#">kms:RecipientAttestation:PCR8</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR9</a> <a href="#">kms:RecipientAttestation:PCR10</a> <a href="#">kms:RecipientAttestation:PCR11</a> <a href="#">kms:RecipientAttestation:PCR12</a> <a href="#">kms:RecipientAttestation:PCR13</a> <a href="#">kms:RecipientAttestation:PCR14</a> <a href="#">kms:RecipientAttestation:PCR15</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR16</a> <a href="#">kms:RecipientAttestation:PCR17</a> <a href="#">kms:RecipientAttestation:PCR18</a> <a href="#">kms:RecipientAttestation:PCR19</a> <a href="#">kms:RecipientAttestation:PCR20</a> <a href="#">kms:RecipientAttestation:PCR21</a> <a href="#">kms:RecipientAttestation:PCR22</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR23</a> <a href="#">kms:RecipientAttestation:PCR24</a> <a href="#">kms:RecipientAttestation:PCR25</a> <a href="#">kms:RecipientAttestation:PCR26</a> <a href="#">kms:RecipientAttestation:PCR27</a> <a href="#">kms:RecipientAttestation:PCR28</a> <a href="#">kms:RecipientAttestation:PCR29</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR30</a> <a href="#">kms:RecipientAttestation:PCR31</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	
<a href="#">DescribeCustomKeyStores</a>	Controls permission to view detailed information about custom key stores in the account and region	Read		<a href="#">kms:CallerAccount</a>	
<a href="#">DescribeKey</a>	Controls permission to view detailed information about an AWS KMS key	Read	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableKey</a>	Controls permission to disable an AWS KMS key, which prevents it from being used in cryptographic operations	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">DisableKeyRotation</a>	Controls permission to disable automatic rotation of a customer managed AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">DisconnectCustomKeyStore</a>	Controls permission to disconnect the custom key store from its associated AWS CloudHSM cluster or external key manager outside of AWS	Write		<a href="#">kms:CallerAccount</a>	
<a href="#">EnableKey</a>	Controls permission to change the state of an AWS KMS key to enabled. This allows the KMS key to be used in cryptographic operations	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableKeyRotation</a>	Controls permission to enable automatic rotation of the cryptographic material in an AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a>  <a href="#">kms:RotationPeriodInDays</a>  <a href="#">kms:ViaService</a>	
<a href="#">Encrypt</a>	Controls permission to use the specified AWS KMS key to encrypt data and data keys	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext: \${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateDataKey</a>	Controls permission to use the AWS KMS key to generate data keys. You can use the data keys to encrypt data outside of AWS KMS	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext:\${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:RecipientAttestation:ImageSha384</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR0</a> <a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR</a> <a href="#">1</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">2</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">3</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">4</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">5</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR</a> <a href="#">6</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR7</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR8</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR9</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR10</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR11</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR12</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR13</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR14</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR15</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR16</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR17</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR18</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR19</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR20</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR21</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR22</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR23</a> <a href="#">kms:RecipientAttestation:PCR0</a> <a href="#">kms:RecipientAttestation:PCR1</a> <a href="#">kms:RecipientAttestation:PCR2</a> <a href="#">kms:RecipientAttestation:PCR3</a> <a href="#">kms:RecipientAttestation:PCR4</a> <a href="#">kms:RecipientAttestation:PCR5</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR6</a> <a href="#">kms:RecipientAttestation:PCR7</a> <a href="#">kms:RecipientAttestation:PCR8</a> <a href="#">kms:RecipientAttestation:PCR9</a> <a href="#">kms:RecipientAttestation:PCR10</a> <a href="#">kms:RecipientAttestation:PCR11</a> <a href="#">kms:RecipientAttestation:PCR12</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR13</a> <a href="#">kms:RecipientAttestation:PCR14</a> <a href="#">kms:RecipientAttestation:PCR15</a> <a href="#">kms:RecipientAttestation:PCR16</a> <a href="#">kms:RecipientAttestation:PCR17</a> <a href="#">kms:RecipientAttestation:PCR18</a> <a href="#">kms:RecipientAttestation:PCR19</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR20</a> <a href="#">kms:RecipientAttestation:PCR21</a> <a href="#">kms:RecipientAttestation:PCR22</a> <a href="#">kms:RecipientAttestation:PCR23</a> <a href="#">kms:RecipientAttestation:PCR24</a> <a href="#">kms:RecipientAttestation:PCR25</a> <a href="#">kms:RecipientAttestation:PCR26</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR27</a> <a href="#">kms:RecipientAttestation:PCR28</a> <a href="#">kms:RecipientAttestation:PCR29</a> <a href="#">kms:RecipientAttestation:PCR30</a> <a href="#">kms:RecipientAttestation:PCR31</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	
<a href="#">GenerateDataKeyPair</a>	Controls permission to use the AWS KMS key to generate data key pairs	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:DataKeyPairSpec</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContextKey</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:RecipientAttestation:ImageSha384</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR0</a> <a href="#">kms:RecipientAttestation:</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tation:Ni troTPMPCR</a> <a href="#">1</a>	
				<a href="#">kms:RecipientAttestation:Ni troTPMPCR</a> <a href="#">2</a>	
				<a href="#">kms:RecipientAttestation:Ni troTPMPCR</a> <a href="#">3</a>	
				<a href="#">kms:RecipientAttestation:Ni troTPMPCR</a> <a href="#">4</a>	
				<a href="#">kms:RecipientAttestation:Ni troTPMPCR</a> <a href="#">5</a>	
				<a href="#">kms:RecipientAttestation:Ni troTPMPCR</a> <a href="#">6</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR7</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR8</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR9</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR10</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR11</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR12</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR13</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR14</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR15</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR16</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR17</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR18</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR19</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR20</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR21</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR22</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR23</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR23</a> <a href="#">kms:RecipientAttestation:PCR0</a> <a href="#">kms:RecipientAttestation:PCR1</a> <a href="#">kms:RecipientAttestation:PCR2</a> <a href="#">kms:RecipientAttestation:PCR3</a> <a href="#">kms:RecipientAttestation:PCR4</a> <a href="#">kms:RecipientAttestation:PCR5</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR6</a> <a href="#">kms:RecipientAttestation:PCR7</a> <a href="#">kms:RecipientAttestation:PCR8</a> <a href="#">kms:RecipientAttestation:PCR9</a> <a href="#">kms:RecipientAttestation:PCR10</a> <a href="#">kms:RecipientAttestation:PCR11</a> <a href="#">kms:RecipientAttestation:PCR12</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR13</a> <a href="#">kms:RecipientAttestation:PCR14</a> <a href="#">kms:RecipientAttestation:PCR15</a> <a href="#">kms:RecipientAttestation:PCR16</a> <a href="#">kms:RecipientAttestation:PCR17</a> <a href="#">kms:RecipientAttestation:PCR18</a> <a href="#">kms:RecipientAttestation:PCR19</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR20</a> <a href="#">kms:RecipientAttestation:PCR21</a> <a href="#">kms:RecipientAttestation:PCR22</a> <a href="#">kms:RecipientAttestation:PCR23</a> <a href="#">kms:RecipientAttestation:PCR24</a> <a href="#">kms:RecipientAttestation:PCR25</a> <a href="#">kms:RecipientAttestation:PCR26</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR27</a> <a href="#">kms:RecipientAttestation:PCR28</a> <a href="#">kms:RecipientAttestation:PCR29</a> <a href="#">kms:RecipientAttestation:PCR30</a> <a href="#">kms:RecipientAttestation:PCR31</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateDataKeyPairWithoutPlaintext</a>	<p>Controls permission to use the AWS KMS key to generate data key pairs. Unlike the GenerateDataKeyPair operation, this operation returns an encrypted private key without a plaintext copy</p>	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:DataKeyPairSpec</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext: \${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateDataKeyWithoutPlaintext</a>	<p>Controls permission to use the AWS KMS key to generate a data key. Unlike the <code>GenerateDataKey</code> operation, this operation returns an encrypted data key without a plaintext version of the data key</p>	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext:\${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	
<a href="#">GenerateMac</a>	<p>Controls permission to use the AWS KMS key to generate message authentication codes</p>	Write	<a href="#">key*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:MacAlgorithm</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateRandom</a>	Controls permission to get a cryptographically secure random byte string from AWS KMS	Write		<a href="#">kms:RecipientAttestation:ImageSha384</a>  <a href="#">kms:RecipientAttestation:NitroTPMPCRO</a>  <a href="#">kms:RecipientAttestation:NitroTPMPCR1</a>  <a href="#">kms:RecipientAttestation:NitroTPMPCR2</a>  <a href="#">kms:RecipientAttestation:NitroTPMPCR3</a>  <a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR</a> <a href="#">4</a> <a href="#">kms:RecipientAttestation:Ni</a> <a href="#">troTPMPCR</a> <a href="#">5</a> <a href="#">kms:RecipientAttestation:Ni</a> <a href="#">troTPMPCR</a> <a href="#">6</a> <a href="#">kms:RecipientAttestation:Ni</a> <a href="#">troTPMPCR</a> <a href="#">7</a> <a href="#">kms:RecipientAttestation:Ni</a> <a href="#">troTPMPCR</a> <a href="#">8</a> <a href="#">kms:RecipientAttestation:Ni</a> <a href="#">troTPMPCR</a> <a href="#">9</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR10</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR11</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR12</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR13</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR14</a>	
				<a href="#">kms:RecipientAttestation:Ni</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">troTPMPCR15</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR16</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR17</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR18</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR19</a> <a href="#">kms:RecipientAttestation:NitroTPMPCR20</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:NitroTPMPCR21</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR22</a>	
				<a href="#">kms:RecipientAttestation:NitroTPMPCR23</a>	
				<a href="#">kms:RecipientAttestation:PCR0</a>	
				<a href="#">kms:RecipientAttestation:PCR1</a>	
				<a href="#">kms:RecipientAttestation:PCR2</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR3</a>	
				<a href="#">kms:RecipientAttestation:PCR4</a>	
				<a href="#">kms:RecipientAttestation:PCR5</a>	
				<a href="#">kms:RecipientAttestation:PCR6</a>	
				<a href="#">kms:RecipientAttestation:PCR7</a>	
				<a href="#">kms:RecipientAttestation:PCR8</a>	
				<a href="#">kms:RecipientAttestation:PCR9</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR10</a>	
				<a href="#">kms:RecipientAttestation:PCR11</a>	
				<a href="#">kms:RecipientAttestation:PCR12</a>	
				<a href="#">kms:RecipientAttestation:PCR13</a>	
				<a href="#">kms:RecipientAttestation:PCR14</a>	
				<a href="#">kms:RecipientAttestation:PCR15</a>	
				<a href="#">kms:RecipientAttestation:PCR16</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR17</a>	
				<a href="#">kms:RecipientAttestation:PCR18</a>	
				<a href="#">kms:RecipientAttestation:PCR19</a>	
				<a href="#">kms:RecipientAttestation:PCR20</a>	
				<a href="#">kms:RecipientAttestation:PCR21</a>	
				<a href="#">kms:RecipientAttestation:PCR22</a>	
				<a href="#">kms:RecipientAttestation:PCR23</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR24</a>	
				<a href="#">kms:RecipientAttestation:PCR25</a>	
				<a href="#">kms:RecipientAttestation:PCR26</a>	
				<a href="#">kms:RecipientAttestation:PCR27</a>	
				<a href="#">kms:RecipientAttestation:PCR28</a>	
				<a href="#">kms:RecipientAttestation:PCR29</a>	
				<a href="#">kms:RecipientAttestation:PCR30</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:RecipientAttestation:PCR31</a>	
<a href="#">GetKeyPolicy</a>	Controls permission to view the key policy for the specified AWS KMS key	Read	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">GetKeyRotationStatus</a>	Controls permission to view the key rotation status for an AWS KMS key	Read	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetParametersForImport</a>	Controls permission to get data that is required to import cryptographic material into a customer managed key, including a public key and import token	Read	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a> <a href="#">kms:WrappingAlgorithm</a> <a href="#">kms:WrappingKeySpec</a>	
<a href="#">GetPublicKey</a>	Controls permission to download the public key of an asymmetric AWS KMS key	Read	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	
<a href="#">ImportKeyMaterial</a>	Controls permission to import cryptographic material into an AWS KMS key	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:ExpirationMode</a> <a href="#">kms:ValidTo</a> <a href="#">kms:ViaService</a>	
<a href="#">ListAliases</a>	Controls permission to view the aliases that are defined in the account. Aliases are optional friendly names that you can associate with AWS KMS keys	List			
<a href="#">ListGrants</a>	Controls permission to view all grants for an AWS KMS key	List	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:GrantIsForResource</a> <a href="#">kms:ViaService</a>	
<a href="#">ListKeyPolicies</a>		List	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Controls permission to view the names of key policies for an AWS KMS key			<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">ListKeyRotations</a>	Controls permission to view the list of key materials for an AWS KMS key	List	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">ListKeys</a>	Controls permission to view the key ID and Amazon Resource Name (ARN) of all AWS KMS keys in the account	List			
<a href="#">ListResourceTags</a>	Controls permission to view all tags that are attached to an AWS KMS key	List	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">ListRetirableGrants</a>	Controls permission to view grants in which the specified principal is the retiring principal. Other principals might be able to retire the grant and this principal might be able to retire other grants	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutKeyPolicy</a>	Controls permission to replace the key policy for the specified AWS KMS key	Permissions management	<a href="#">key*</a>	<a href="#">kms:BypassPolicyLockoutSafetyCheck</a>  <a href="#">kms:CallrAccount</a>  <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReEncrypt From</a>	Controls permission to decrypt data as part of the process that decrypts and reencrypts the data within AWS KMS	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext: \${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:ReEncryptOnSameKey</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReEncryptTo</a>	Controls permission to encrypt data as part of the process that decrypts and reencrypts the data within AWS KMS	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:EncryptionAlgorithm</a> <a href="#">kms:EncryptionContext: \${EncryptionContextKey}</a> <a href="#">kms:EncryptionContextKeys</a> <a href="#">kms:ReEncryptOnSameKey</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ReplicateKey</a>	Controls permission to replicate a multi-Region primary key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ReplicaRegion</a> <a href="#">kms:ViaService</a>	iam:CreateServiceLinkedRole kms:CreateKey kms:PutKeyPolicy kms:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RetireGrant</a>	Controls permission to retire a grant. The RetireGrant operation is typically called by the grant user after they complete the tasks that the grant allowed them to perform	Permissions management	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a>  <a href="#">kms:EncryptionContext:\${EncryptionContextKey}</a>  <a href="#">kms:EncryptionContextKeys</a>  <a href="#">kms:GrantConstraintType</a>  <a href="#">kms:ViaService</a>	
<a href="#">RevokeGrant</a>	Controls permission to revoke a grant, which denies permission for all operations that depend on the grant	Permissions management	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a>  <a href="#">kms:GrantIsForAWSResource</a>  <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RotateKeyOnDemand</a>	Controls permission to invoke on-demand rotation of the cryptographic material in an AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">ScheduleKeyDeletion</a>	Controls permission to schedule deletion of an AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ScheduleKeyDeletionPendingWindowInDays</a> <a href="#">kms:ViaService</a>	
<a href="#">Sign</a>	Controls permission to produce a digital signature for a message	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:MessageType</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:SigningAlgorithm</a> <a href="#">kms:ViaService</a>	
<a href="#">SynchronizeMultiRegionKey</a> [permission only]	Controls access to internal APIs that synchronize multi-Region keys	Write	<a href="#">key*</a>		
<a href="#">TagResource</a>	Controls permission to create or update tags that are attached to an AWS KMS key	Tagging	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">UntagResource</a>	Controls permission to delete tags that are attached to an AWS KMS key	Tagging	<a href="#">key*</a>	<a href="#">aws:TagKeys</a> <a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">UpdateAlias</a>	Controls permission to associate an alias with a different AWS KMS key. An alias is an optional friendly name that you can associate with a KMS key	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCustomKeyStore</a>	Controls permission to change the properties of a custom key store	Write		<a href="#">kms:CallerAccount</a>	ec2:DescribeVpcEndpoints
<a href="#">UpdateKeyDescription</a>	Controls permission to delete or change the description of an AWS KMS key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:ViaService</a>	
<a href="#">UpdatePrimaryRegion</a>	Controls permission to update the primary Region of a multi-Region primary key	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:PrimaryRegion</a> <a href="#">kms:ViaService</a>	
<a href="#">Verify</a>	Controls permission to use the specified AWS KMS key to verify digital signatures	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms:CallerAccount</a> <a href="#">kms:MessageType</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:SigningAlgorithm</a> <a href="#">kms:ViaService</a>	
<a href="#">VerifyMac</a>	Controls permission to use the AWS KMS key to verify message authentication codes	Write	<a href="#">key*</a>	<a href="#">kms:CallerAccount</a> <a href="#">kms:MacAlgorithm</a> <a href="#">kms:RequestAlias</a> <a href="#">kms:ViaService</a>	

## Resource types defined by AWS Key Management Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types



that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">alias</a>	arn:\${Partition}:kms:\${Region}:\${Account}:alias/\${Alias}	
<a href="#">key</a>	arn:\${Partition}:kms:\${Region}:\${Account}:key/\${KeyId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">kms:KeyOrigin</a> <a href="#">kms:KeySpec</a> <a href="#">kms:KeyUsage</a> <a href="#">kms:MultiRegion</a> <a href="#">kms:MultiRegionKeyType</a> <a href="#">kms:ResourceAliases</a>

## Condition keys for AWS Key Management Service

AWS Key Management Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access to the specified AWS KMS operations based on both the key and value of the tag in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access to the specified AWS KMS operations based on tags assigned to the AWS KMS key	String
<a href="#">aws:TagKeys</a>	Filters access to the specified AWS KMS operations based on tag keys in the request	ArrayOfString
<a href="#">kms:BypassPolicyLockoutSafetyCheck</a>	Filters access to the CreateKey and PutKeyPolicy operations based on the value of the BypassPolicyLockoutSafetyCheck parameter in the request	Bool
<a href="#">kms:CallerAccount</a>	Filters access to specified AWS KMS operations based on the AWS account ID of the caller. You can use this condition key to allow or deny access to all IAM users and roles in an AWS account in a single policy statement	String
<a href="#">kms:CustomerMasterKeySpec</a>	The kms:CustomerMasterKeySpec condition key is deprecated. Instead, use the kms:KeySpec condition key	String
<a href="#">kms:CustomerMasterKeyUsage</a>	The kms:CustomerMasterKeyUsage condition key is deprecated. Instead, use the kms:KeyUsage condition key	String
<a href="#">kms:DataKeyPairSpec</a>	Filters access to GenerateDataKeyPair and GenerateDataKeyPairWithoutPlaintext operations based on the value of the KeyPairSpec parameter in the request	String
<a href="#">kms:EncryptionAlgorithm</a>	Filters access to encryption operations based on the value of the encryption algorithm in the request	String

Condition keys	Description	Type
<a href="#">kms:EncryptionContext: \${EncryptionContextKey}</a>	Filters access to a symmetric AWS KMS key based on the encryption context in a cryptographic operation. This condition evaluates the key and value in each key-value encryption context pair	String
<a href="#">kms:EncryptionContextKeys</a>	Filters access to a symmetric AWS KMS key based on the encryption context in a cryptographic operation. This condition key evaluates only the key in each key-value encryption context pair	ArrayOfString
<a href="#">kms:ExpirationModel</a>	Filters access to the ImportKeyMaterial operation based on the value of the ExpirationModel parameter in the request	String
<a href="#">kms:GrantConstraintType</a>	Filters access to the CreateGrant operation based on the grant constraint in the request	String
<a href="#">kms:GrantIsForAWSResource</a>	Filters access to the CreateGrant operation when the request comes from a specified AWS service	Bool
<a href="#">kms:GrantOperations</a>	Filters access to the CreateGrant operation based on the operations in the grant	ArrayOfString
<a href="#">kms:GrantGranteePrincipal</a>	Filters access to the CreateGrant operation based on the grantee principal in the grant	String
<a href="#">kms:KeyAgreementAlgorithm</a>	Filters access to the DeriveSharedSecret operation based on the value of the KeyAgreementAlgorithm parameter in the request	String
<a href="#">kms:KeyOrigin</a>	Filters access to an API operation based on the Origin property of the AWS KMS key created by or used in the operation. Use it to qualify authorization of the CreateKey operation or any operation that is authorized for a KMS key	String

Condition keys	Description	Type
<a href="#">kms:KeySpec</a>	Filters access to an API operation based on the KeySpec property of the AWS KMS key that is created by or used in the operation. Use it to qualify authorization of the CreateKey operation or any operation that is authorized for a KMS key resource	String
<a href="#">kms:KeyUsage</a>	Filters access to an API operation based on the KeyUsage property of the AWS KMS key created by or used in the operation. Use it to qualify authorization of the CreateKey operation or any operation that is authorized for a KMS key resource	String
<a href="#">kms:MacAlgorithm</a>	Filters access to the GenerateMac and VerifyMac operations based on the MacAlgorithm parameter in the request	String
<a href="#">kms:MessageType</a>	Filters access to the Sign and Verify operations based on the value of the MessageType parameter in the request	String
<a href="#">kms:MultiRegion</a>	Filters access to an API operation based on the MultiRegion property of the AWS KMS key created by or used in the operation. Use it to qualify authorization of the CreateKey operation or any operation that is authorized for a KMS key resource	Bool
<a href="#">kms:MultiRegionKeyType</a>	Filters access to an API operation based on the MultiRegionKeyType property of the AWS KMS key created by or used in the operation. Use it to qualify authorization of the CreateKey operation or any operation that is authorized for a KMS key resource	String
<a href="#">kms:PrimaryRegion</a>	Filters access to the UpdatePrimaryRegion operation based on the value of the PrimaryRegion parameter in the request	String

Condition keys	Description	Type
<a href="#">kms:ReEncryptOnSameKey</a>	Filters access to the ReEncrypt operation when it uses the same AWS KMS key that was used for the Encrypt operation	Bool
<a href="#">kms:RecipientAttestation:ImageSha384</a>	Filters access to the API operations based on the image hash in the attestation document in the request	String
<a href="#">kms:RecipientAttestation:NitroTPMPCRO</a>	Filters access by the platform configuration register (PCR) 0 in the attestation document in the request. PCR0 is a contiguous measure of core system firmware executable code	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR1</a>	Filters access by the platform configuration register (PCR) 1 in the attestation document in the request. PCR1 is a contiguous measure of core system firmware data/host platform configuration, typically including serial and model numbers	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR10</a>	Filters access by the platform configuration register (PCR) 10 in the attestation document in the request. PCR10 is a contiguous measure of protection of the IMA measurement log	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR11</a>	Filters access by the platform configuration register (PCR) 11 in the attestation document in the request. PCR11 is a contiguous measure of all components of unified kernel images (UKIs)	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR12</a>	Filters access by the platform configuration register (PCR) 12 in the attestation document in the request. PCR12 is a contiguous measure of kernel command line, system credentials and system configuration images	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:NitroTPMPCR13</a>	Filters access by the platform configuration register (PCR) 13 in the attestation document in the request. PCR13 is a contiguous measure of all system extension images for the initrd	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR14</a>	Filters access by the platform configuration register (PCR) 14 in the attestation document in the request. PCR14 is a contiguous measure of "MOK" certificates and hashes	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR15</a>	Filters access by the platform configuration register (PCR) 15 in the attestation document in the request. PCR15 is a contiguous measure of root file system volume encryption key	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR16</a>	Filters access by the platform configuration register (PCR) 16 in the attestation document in the request. PCR16 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR17</a>	Filters access by the platform configuration register (PCR) 17 in the attestation document in the request. PCR17 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR18</a>	Filters access by the platform configuration register (PCR) 18 in the attestation document in the request. PCR18 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR19</a>	Filters access by the platform configuration register (PCR) 19 in the attestation document in the request. PCR19 is a custom PCR that can be defined by the user for specific use cases	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:NitroTPMPCR2</a>	Filters access by the platform configuration register (PCR) 2 in the attestation document in the request. PCR2 is a contiguous measure of extended or pluggable executable code, including option ROMs on pluggable hardware	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR20</a>	Filters access by the platform configuration register (PCR) 20 in the attestation document in the request. PCR20 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR21</a>	Filters access by the platform configuration register (PCR) 21 in the attestation document in the request. PCR21 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR22</a>	Filters access by the platform configuration register (PCR) 22 in the attestation document in the request. PCR22 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR23</a>	Filters access by the platform configuration register (PCR) 23 in the attestation document in the request. PCR23 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR3</a>	Filters access by the platform configuration register (PCR) 3 in the attestation document in the request. PCR3 is a contiguous measure of extended or pluggable firmware data, including information about pluggable hardware	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:NitroTPMPCR4</a>	Filters access by the platform configuration register (PCR) 4 in the attestation document in the request. PCR4 is a contiguous measure of boot loader and additional drivers, including binaries and extensions loaded by the boot loader	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR5</a>	Filters access by the platform configuration register (PCR) 5 in the attestation document in the request. PCR5 is a contiguous measure of GPT/Partition table	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR6</a>	Filters access by the platform configuration register (PCR) 6 in the attestation document in the request. PCR6 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR7</a>	Filters access by the platform configuration register (PCR) 7 in the attestation document in the request. PCR7 is a contiguous measure of SecureBoot state	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR8</a>	Filters access by the platform configuration register (PCR) 8 in the attestation document in the request. PCR8 is a contiguous measure of commands and kernel command line	String
<a href="#">kms:RecipientAttestation:NitroTPMPCR9</a>	Filters access by the platform configuration register (PCR) 9 in the attestation document in the request. PCR9 is a contiguous measure of all files read (including kernel image)	String
<a href="#">kms:RecipientAttestation:PCRO</a>	Filters access by the platform configuration register (PCR) 0 in the attestation document in the request. PCRO is a contiguous measure of the contents of the enclave image file, without the section data	String



Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:PCR1</a>	Filters access by the platform configuration register (PCR) 1 in the attestation document in the request. PCR1 is a contiguous measurement of the Linux kernel and bootstrap data	String
<a href="#">kms:RecipientAttestation:PCR10</a>	Filters access by the platform configuration register (PCR) 10 in the attestation document in the request. PCR10 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR11</a>	Filters access by the platform configuration register (PCR) 11 in the attestation document in the request. PCR11 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR12</a>	Filters access by the platform configuration register (PCR) 12 in the attestation document in the request. PCR12 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR13</a>	Filters access by the platform configuration register (PCR) 13 in the attestation document in the request. PCR13 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR14</a>	Filters access by the platform configuration register (PCR) 14 in the attestation document in the request. PCR14 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR15</a>	Filters access by the platform configuration register (PCR) 15 in the attestation document in the request. PCR15 is a custom PCR that can be defined by the user for specific use cases	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:PCR16</a>	Filters access by the platform configuration register (PCR) 16 in the attestation document in the request. PCR16 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR17</a>	Filters access by the platform configuration register (PCR) 17 in the attestation document in the request. PCR17 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR18</a>	Filters access by the platform configuration register (PCR) 18 in the attestation document in the request. PCR18 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR19</a>	Filters access by the platform configuration register (PCR) 19 in the attestation document in the request. PCR19 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR2</a>	Filters access by the platform configuration register (PCR) 2 in the attestation document in the request. PCR2 is a contiguous, in-order measurement of the user applications, without the boot ramfs	String
<a href="#">kms:RecipientAttestation:PCR20</a>	Filters access by the platform configuration register (PCR) 20 in the attestation document in the request. PCR20 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR21</a>	Filters access by the platform configuration register (PCR) 21 in the attestation document in the request. PCR21 is a custom PCR that can be defined by the user for specific use cases	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:PCR22</a>	Filters access by the platform configuration register (PCR) 22 in the attestation document in the request. PCR22 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR23</a>	Filters access by the platform configuration register (PCR) 23 in the attestation document in the request. PCR23 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR24</a>	Filters access by the platform configuration register (PCR) 24 in the attestation document in the request. PCR24 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR25</a>	Filters access by the platform configuration register (PCR) 25 in the attestation document in the request. PCR25 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR26</a>	Filters access by the platform configuration register (PCR) 26 in the attestation document in the request. PCR26 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR27</a>	Filters access by the platform configuration register (PCR) 27 in the attestation document in the request. PCR27 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR28</a>	Filters access by the platform configuration register (PCR) 28 in the attestation document in the request. PCR28 is a custom PCR that can be defined by the user for specific use cases	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:PCR29</a>	Filters access by the platform configuration register (PCR) 29 in the attestation document in the request. PCR29 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR3</a>	Filters access by the platform configuration register (PCR) 3 in the attestation document in the request. PCR3 is a contiguous measurement of the IAM role assigned to the parent instance	String
<a href="#">kms:RecipientAttestation:PCR30</a>	Filters access by the platform configuration register (PCR) 30 in the attestation document in the request. PCR30 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR31</a>	Filters access by the platform configuration register (PCR) 31 in the attestation document in the request. PCR31 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR4</a>	Filters access by the platform configuration register (PCR) 4 in the attestation document in the request. PCR4 is a contiguous measurement of the ID of the parent instance	String
<a href="#">kms:RecipientAttestation:PCR5</a>	Filters access by the platform configuration register (PCR) 5 in the attestation document in the request. PCR5 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR6</a>	Filters access by the platform configuration register (PCR) 6 in the attestation document in the request. PCR6 is a custom PCR that can be defined by the user for specific use cases	String

Condition keys	Description	Type
<a href="#">kms:RecipientAttestation:PCR7</a>	Filters access by the platform configuration register (PCR) 7 in the attestation document in the request. PCR7 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:RecipientAttestation:PCR8</a>	Filters access by the platform configuration register (PCR) 8 in the attestation document in the request. PCR8 is a measure of the signing certificate specified for the enclave image file	String
<a href="#">kms:RecipientAttestation:PCR9</a>	Filters access by the platform configuration register (PCR) 9 in the attestation document in the request. PCR9 is a custom PCR that can be defined by the user for specific use cases	String
<a href="#">kms:ReplicaRegion</a>	Filters access to the ReplicateKey operation based on the value of the ReplicaRegion parameter in the request	String
<a href="#">kms:RequestAlias</a>	Filters access to cryptographic operations, DescribeKey, and GetPublicKey based on the alias in the request	String
<a href="#">kms:ResourceAliases</a>	Filters access to specified AWS KMS operations based on aliases associated with the AWS KMS key	ArrayOfString
<a href="#">kms:RetiringPrincipal</a>	Filters access to the CreateGrant operation based on the retiring principal in the grant	String
<a href="#">kms:RotationPeriodInDays</a>	Filters access to the EnableKeyRotation operation based on the value of the RotationPeriodInDays parameter in the request	Numeric
<a href="#">kms:ScheduleKeyDeletionPendingWindowInDays</a>	Filters access to the ScheduleKeyDeletion operation based on the value of the PendingWindowInDays parameter in the request	Numeric

Condition keys	Description	Type
<a href="#">kms:SigningAlgorithm</a>	Filters access to the Sign and Verify operations based on the signing algorithm in the request	String
<a href="#">kms:ValidTo</a>	Filters access to the ImportKeyMaterial operation based on the value of the ValidTo parameter in the request. You can use this condition key to allow users to import key material only when it expires by the specified date	Date
<a href="#">kms:ViaService</a>	Filters access when a request made on the principal's behalf comes from a specified AWS service	String
<a href="#">kms:WrappingAlgorithm</a>	Filters access to the GetParametersForImport operation based on the value of the WrappingAlgorithm parameter in the request	String
<a href="#">kms:WrappingKeySpec</a>	Filters access to the GetParametersForImport operation based on the value of the WrappingKeySpec parameter in the request	String

## Actions, resources, and condition keys for Amazon Keyspaces (for Apache Cassandra)

Amazon Keyspaces (for Apache Cassandra) (service prefix: `cassandra`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Keyspaces \(for Apache Cassandra\)](#)
- [Resource types defined by Amazon Keyspaces \(for Apache Cassandra\)](#)

- [Condition keys for Amazon Keyspaces \(for Apache Cassandra\)](#)

## Actions defined by Amazon Keyspaces (for Apache Cassandra)

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Alter</a>	Grants permission to alter a keyspace or table	Write	<a href="#">keyspace</a> <a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AlterMultiRegionResource</a>	Grants permission to alter a multiregion keyspace or table	Write	<a href="#">keyspace</a> <a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Create</a>	Grants permission to create a keyspace or table	Write	<a href="#">keyspace</a>		
			<a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMultiRegionResource</a>	Grants permission to create a multiregion keyspace or table	Write	<a href="#">keyspace</a>		
			<a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">Drop</a>	Grants permission to drop a keyspace or table	Write	<a href="#">keyspace</a>		
			<a href="#">table</a>		
<a href="#">DropMultiRegionResource</a>	Grants permission to drop a multiregion keyspace or table	Write	<a href="#">keyspace</a>		
			<a href="#">table</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRecords</a>	Grants permission to retrieve the CDC stream records from a given shard	Read	<a href="#">stream*</a>		
<a href="#">GetShardIterator</a>	Grants permission to return a shard iterator	Read	<a href="#">stream*</a>		
<a href="#">GetStream</a>	Grants permission to return information about a CDC stream, including the composition of its shards	Read	<a href="#">stream*</a>		
<a href="#">ListStreams</a>	Grants permission to return an array of CDC stream ARNs associated with the current account and endpoint	List			
<a href="#">Modify</a>	Grants permission to INSERT, UPDATE or DELETE data in a table	Write	<a href="#">table*</a>		
<a href="#">ModifyMultiRegionResource</a>	Grants permission to INSERT, UPDATE or DELETE data in a multiregion table	Write	<a href="#">table*</a>		
<a href="#">Restore</a>	Grants permission to restore table from a backup	Write	<a href="#">table*</a>		
<a href="#">RestoreMultiRegionTable</a>	Grants permission to restore multiregion table from a backup	Write	<a href="#">table*</a>		
<a href="#">Select</a>	Grants permission to SELECT data from a table	Read	<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SelectMultiRegionResource</a>	Grants permission to SELECT data from a multiregion table	Read	<a href="#">table*</a>		
<a href="#">TagMultiRegionResource</a>	Grants permission to tag a multiregion keyspace or table	Tagging	<a href="#">keyspace</a> <a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to tag a keyspace, table, or stream	Tagging	<a href="#">keyspace</a> <a href="#">stream</a> <a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagMultiRegionResource</a>	Grants permission to untag a multiregion keyspace or table	Tagging	<a href="#">keyspace</a> <a href="#">table</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a keyspace, table or stream	Tagging	<a href="#">keyspace</a>		
			<a href="#">stream</a>		
			<a href="#">table</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdatePartitioner</a>	Grants permission to UPDATE the partitioner in a system table	Write	<a href="#">table*</a>		

## Resource types defined by Amazon Keyspaces (for Apache Cassandra)

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">keyspace</a>	arn:\${Partition}:cassandra:\${Region}:\${Account}:/keyspace/\${KeyspaceName}/	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">table</a>	arn:\${Partition}:cassandra:\${Region}:\${Account}:/keyspace/\${KeyspaceName}/table/\${TableName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">stream</a>	arn:\${Partition}:cassandra:\${Region}:\${Account}:/keyspace/\${KeyspaceName}/table/\${TableName}/stream/\${StreamLabel}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Keyspaces (for Apache Cassandra)

Amazon Keyspaces (for Apache Cassandra) defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Kinesis Analytics

Amazon Kinesis Analytics (service prefix: `kinesisanalytics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Kinesis Analytics](#)
- [Resource types defined by Amazon Kinesis Analytics](#)
- [Condition keys for Amazon Kinesis Analytics](#)

## Actions defined by Amazon Kinesis Analytics


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddApplicationInput</a>	Grants permission to add input to the application	Write	<a href="#">application*</a>		
<a href="#">AddApplicationOutput</a>	Grants permission to add output to the application	Write	<a href="#">application*</a>		
<a href="#">AddApplicationReferenceDataSource</a>	Grants permission to add reference data source to the application	Write	<a href="#">application*</a>		
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete the application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationOutput</a>	Grants permission to delete the specified output of the application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationReferenceDataSource</a>	Grants permission to delete the specified reference data source of the application	Write	<a href="#">application*</a>		
<a href="#">DescribeApplication</a>	Grants permission to describe the specified application	Read	<a href="#">application*</a>		
<a href="#">DiscoverInputSchema</a>	Grants permission to discover the input schema for the application	Read			
<a href="#">GetApplicationState</a> [permission only]	Grants permission to Kinesis Data Analytics console to display stream results for Kinesis Data Analytics SQL runtime applications	Read	<a href="#">application*</a>		
<a href="#">ListApplications</a>	Grants permission to list applications for the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to fetch the tags associated with the application	Read	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartApplication</a>	Grants permission to start the application	Write	<a href="#">application*</a>		
<a href="#">StopApplication</a>	Grants permission to stop the application	Write	<a href="#">application*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the application	Tagging	<a href="#">application*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the application	Tagging	<a href="#">application*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update the application	Write	<a href="#">application*</a>		

## Resource types defined by Amazon Kinesis Analytics

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:kinesisanalytics:\${Region}:\${Account}:application/\${ApplicationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Kinesis Analytics

Amazon Kinesis Analytics defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Kinesis Analytics V2

Amazon Kinesis Analytics V2 (service prefix: `kinesisanalytics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Kinesis Analytics V2](#)
- [Resource types defined by Amazon Kinesis Analytics V2](#)
- [Condition keys for Amazon Kinesis Analytics V2](#)

## Actions defined by Amazon Kinesis Analytics V2


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddApplicationCloudWatchLoggingOption</a>	Grants permission to add cloudwatch logging option to the application	Write	<a href="#">application*</a>		
<a href="#">AddApplicationInput</a>	Grants permission to add input to the application	Write	<a href="#">application*</a>		
<a href="#">AddApplicationInputProcessingConfiguration</a>	Grants permission to add input processing configuration to the application	Write	<a href="#">application*</a>		
<a href="#">AddApplicationOutput</a>	Grants permission to add output to the application	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddApplicationReferenceDataSource</a>	Grants permission to add reference data source to the application	Write	<a href="#">application*</a>		
<a href="#">AddApplicationVpcConfiguration</a>	Grants permission to add VPC configuration to the application	Write	<a href="#">application*</a>		
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">CreateApplicationPresignedUrl</a>	Grants permission to create and return a URL that you can use to connect to an application's extension	Read	<a href="#">application*</a>		
<a href="#">CreateApplicationSnapshot</a>	Grants permission to create a snapshot for an application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplication</a>	Grants permission to delete the application	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteApplicationCloudWatchLoggingOption</a>	Grants permission to delete the specified cloudwatch logging option of the application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationInputProcessingConfiguration</a>	Grants permission to delete the specified input processing configuration of the application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationOutput</a>	Grants permission to delete the specified output of the application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationReferenceDataSource</a>	Grants permission to delete the specified reference data source of the application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationSnapshot</a>	Grants permission to delete a snapshot for an application	Write	<a href="#">application*</a>		
<a href="#">DeleteApplicationVpcConfiguration</a>	Grants permission to delete the specified VPC configuration of the application	Write	<a href="#">application*</a>		
<a href="#">DescribeApplication</a>	Grants permission to describe the specified application	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeApplicationOperation</a>	Grants permission to describe an application operation of an application	Read	<a href="#">application*</a>		
<a href="#">DescribeApplicationSnapshot</a>	Grants permission to describe an application snapshot	Read	<a href="#">application*</a>		
<a href="#">DescribeApplicationVersion</a>	Grants permission to describe the application version of an application	Read	<a href="#">application*</a>		
<a href="#">DiscoverInputSchema</a>	Grants permission to discover the input schema for the application	Read			iam:PassRole
<a href="#">ListApplicationOperations</a>	Grants permission to list application operations of an application	Read	<a href="#">application*</a>		
<a href="#">ListApplicationSnapshots</a>	Grants permission to list the snapshots for an application	Read	<a href="#">application*</a>		
<a href="#">ListApplicationVersions</a>	Grants permission to list application versions of an application	Read	<a href="#">application*</a>		
<a href="#">ListApplications</a>	Grants permission to list applications for the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to fetch the tags associated with the application	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RollbackApplication</a>	Grants permission to perform rollback operation on an application	Write	<a href="#">application*</a>		
<a href="#">StartApplication</a>	Grants permission to start the application	Write	<a href="#">application*</a>		
<a href="#">StopApplication</a>	Grants permission to stop the application	Write	<a href="#">application*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the application	Tagging	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the application	Tagging	<a href="#">application*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update the application	Write	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApplicationMaintenanceConfiguration</a>	Grants permission to update the maintenance configuration of an application	Write	<a href="#">application*</a>		

## Resource types defined by Amazon Kinesis Analytics V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:kinesisanalytics:\${Region}:\${Account}:application/\${ApplicationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Kinesis Analytics V2

Amazon Kinesis Analytics V2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Kinesis Data Streams

Amazon Kinesis Data Streams (service prefix: `kinesis`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Kinesis Data Streams](#)
- [Resource types defined by Amazon Kinesis Data Streams](#)
- [Condition keys for Amazon Kinesis Data Streams](#)

## Actions defined by Amazon Kinesis Data Streams


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToStream</a>	Grants permission to add or update tags for the specified Amazon Kinesis stream. Each stream can have up to 50 tags	Tagging	<a href="#">stream*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateStream</a>	Grants permission to create a Amazon Kinesis stream	Write	<a href="#">stream*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DecreaseStreamRetentionPeriod</a>	Grants permission to decrease the stream's retention period, which is the length of time data records are accessible after they are added to the stream	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy associated with a specified stream or consumer	Write	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteStream</a>	Grants permission to delete a stream and all its shards and data	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeregisterStreamConsumer</a>	Grants permission to deregister a stream consumer with a Kinesis data stream	Write	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAccountSettings</a>	Grants permission to describe the account-level settings for Amazon Kinesis Data Streams	Read			
<a href="#">DescribeLimits</a>	Grants permission to describe the shard limits and usage for the account	Read			
<a href="#">DescribeStream</a>	Grants permission to describe the specified stream	Read	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStreamConsumer</a>	Grants permission to get the description of a registered stream consumer	Read	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeStreamSummary</a>	Grants permission to provide a summarized description of the specified Kinesis data stream without the shard list	Read	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisableEnhancedMonitoring</a>	Grants permission to disables enhanced monitoring	Write			
<a href="#">EnableEnhancedMonitoring</a>	Grants permission to enable enhanced Kinesis data stream monitoring for shard-level metrics	Write			
<a href="#">GetRecords</a>	Grants permission to get data records from a shard	Read	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetResourcePolicy</a>	Grants permission to get a resource policy associated with a specified stream or consumer	Read	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetShardIterator</a>	Grants permission to get a shard iterator. A shard iterator expires five minutes after it is returned to the requester	Read	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">IncreaseStreamRetentionPeriod</a>	Grants permission to increase the stream's retention period, which is the length of time data records are accessible after they are added to the stream	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">InjectApiError</a> [permission only]	Grants permission to temporarily inject errors for target API requests	Write		<a href="#">kinesis:FireAction</a> <a href="#">kinesis:FireTargetActions</a> <a href="#">kinesis:FireInjectPercentage</a>	
<a href="#">ListShards</a>	Grants permission to list the shards in a stream and provides information about each shard	List	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStreamConsumers</a>	Grants permission to list the stream consumers registered to receive data from a Kinesis stream using enhanced fan-out, and provides information about each consumer	List	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListStreams</a>	Grants permission to list your streams	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified Amazon Kinesis resource	Read	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForStream</a>	Grants permission to list the tags for the specified Amazon Kinesis stream	Read	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">MergeShards</a>	Grants permission to merge two adjacent shards in a stream and combines them into a single shard to reduce the stream's capacity to ingest and transport data	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutRecord</a>	Grants permission to write a single data record from a producer into an Amazon Kinesis stream	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutRecords</a>	Grants permission to write multiple data records from a producer into an Amazon Kinesis stream in a single call (also referred to as a PutRecords request)	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource policy to a specified stream or consumer	Write	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterStreamConsumer</a>	Grants permission to register a stream consumer with a Kinesis data stream	Write	<a href="#">stream*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RemoveTagsFromStream</a>	Grants permission to remove tags from the specified Kinesis data stream. Removed tags are deleted and cannot be recovered after this operation successfully completes	Tagging	<a href="#">stream*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SplitShards</a>	Grants permission to split a shard into two new shards in the Kinesis data stream, to increase the stream's capacity to ingest and transport data	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartStreamEncryption</a>	Grants permission to enable or update server-side encryption using an AWS KMS key for a specified stream	Write	<a href="#">kmsKey*</a>  <a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopStreamEncryption</a>	Grants permission to disable server-side encryption for a specified stream	Write	<a href="#">kmsKey*</a>  <a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SubscribeToShard</a>	Grants permission to listen to a specific shard with enhanced fan-out	Read	<a href="#">consumer*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to add or update tags for the specified Amazon Kinesis resource. Each resource can have up to 50 tags	Tagging	<a href="#">consumer*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">stream*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified Kinesis data resource. Removed tags are deleted and cannot be recovered after this operation successfully completes	Tagging	<a href="#">consumer*</a>  <a href="#">stream*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAccountSettings</a>	Grants permission to update the account-level settings for Amazon Kinesis Data Streams	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMaxRecordSize</a>	Grants permission to update the maximum record size for a Kinesis data stream	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateShardCount</a>	Grants permission to update the shard count of the specified stream to the specified number of shards	Write			
<a href="#">UpdateStreamMode</a>	Grants permission to update the capacity mode of the data stream	Write			
<a href="#">UpdateStreamWarmThroughput</a>	Grants permission to update the warm throughput for a Kinesis on-demand data stream	Write	<a href="#">stream*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Kinesis Data Streams

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">stream</a>	arn:\${Partition}:kinesis:\${Region}:\${Account}:stream/\${StreamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">consumer</a>	arn:\${Partition}:kinesis:\${Region}:\${Account}:\${StreamType}/\${StreamName}/consumer/\${ConsumerName}:\${ConsumerCreationTimestamp}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">kmsKey</a>	arn:\${Partition}:kms:\${Region}:\${Account}:key/\${KeyId}	

## Condition keys for Amazon Kinesis Data Streams

Amazon Kinesis Data Streams defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">kinesis:FisActionId</a>	Filters access by the ID of an AWS FIS action	String
<a href="#">kinesis:FisInjectPercentage</a>	Filters access by the percentage of calls being affected by an AWS FIS action	Numeric

Condition keys	Description	Type
<a href="#">kinesis:FilterAccessViaTargetArns</a>	Filters access by the ARN of an AWS FIS target	ArrayOfARN

## Actions, resources, and condition keys for Amazon Kinesis Firehose

Amazon Kinesis Firehose (service prefix: `firehose`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Kinesis Firehose](#)
- [Resource types defined by Amazon Kinesis Firehose](#)
- [Condition keys for Amazon Kinesis Firehose](#)

## Actions defined by Amazon Kinesis Firehose

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDeliveryStream</a>	Grants permission to create a delivery stream	Write	<a href="#">deliverystream*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDeliveryStream</a>	Grants permission to delete a delivery stream and its data	Write	<a href="#">deliverystream*</a>		
<a href="#">DescribeDeliveryStream</a>	Grants permission to describe the specified delivery stream and gets the status	Read	<a href="#">deliverystream*</a>		
<a href="#">ListDeliveryStreams</a>	Grants permission to list your delivery streams	List			
<a href="#">ListTagsForDeliveryStream</a>	Grants permission to list the tags for the specified delivery stream	List	<a href="#">deliverystream*</a>		
<a href="#">PutRecord</a>	Grants permission to write a single data record into an Amazon Kinesis Firehose delivery stream	Write	<a href="#">deliverystream*</a>		
<a href="#">PutRecordBatch</a>	Grants permission to write multiple data records into a delivery stream in a single call, which can achieve higher throughput per producer than when writing single records	Write	<a href="#">deliverystream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDeliveryStreamEncryption</a>	Grants permission to enable server-side encryption (SSE) for the delivery stream	Write	<a href="#">deliverystream*</a>		
<a href="#">StopDeliveryStreamEncryption</a>	Grants permission to disable the specified destination of the specified delivery stream	Write	<a href="#">deliverystream*</a>		
<a href="#">TagDeliveryStream</a>	Grants permission to add or update tags for the specified delivery stream	Tagging	<a href="#">deliverystream*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagDeliveryStream</a>	Grants permission to remove tags from the specified delivery stream	Tagging	<a href="#">deliverystream*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDestination</a>	Grants permission to update the specified destination of the specified delivery stream	Write	<a href="#">deliverystream*</a>		

## Resource types defined by Amazon Kinesis Firehose

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">deliverystream</a>	arn:\${Partition}:firehose:\${Region}:\${Account}:deliverystream/\${DeliveryStreamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Kinesis Firehose

Amazon Kinesis Firehose defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

# Actions, resources, and condition keys for Amazon Kinesis Video Streams

Amazon Kinesis Video Streams (service prefix: `kinesisvideo`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Kinesis Video Streams](#)
- [Resource types defined by Amazon Kinesis Video Streams](#)
- [Condition keys for Amazon Kinesis Video Streams](#)

## Actions defined by Amazon Kinesis Video Streams

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ConnectAs Master</a>	Grants permission to connect as a master to the signaling channel specified by the endpoint	Write	<a href="#">channel*</a>		
<a href="#">ConnectAs Viewer</a>	Grants permission to connect as a viewer to the signaling channel specified by the endpoint	Write	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSignalingChannel</a>	Grants permission to create a signaling channel	Write	<a href="#">channel*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStream</a>	Grants permission to create a Kinesis video stream	Write	<a href="#">stream*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteEdgeConfiguration</a>	Grants permission to delete the edge configuration of your Kinesis Video Stream	Write	<a href="#">stream*</a>		
<a href="#">DeleteSignalingChannel</a>	Grants permission to delete an existing signaling channel	Write	<a href="#">channel*</a>		
<a href="#">DeleteStream</a>	Grants permission to delete an existing Kinesis video stream	Write	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEdgeConfiguration</a>	Grants permission to describe the edge configuration of your Kinesis Video Stream	Read	<a href="#">stream*</a>		
<a href="#">DescribeImageGenerationConfiguration</a>	Grants permission to describe the image generation configuration of your Kinesis video stream	Read	<a href="#">stream*</a>		
<a href="#">DescribeMappedResourceConfiguration</a>	Grants permission to describe the resource mapped to the Kinesis video stream	List	<a href="#">stream*</a>		
<a href="#">DescribeMediaStorageConfiguration</a>	Grants permission to describe the media storage configuration of a signaling channel	Read	<a href="#">channel*</a>		
<a href="#">DescribeNotificationConfiguration</a>	Grants permission to describe the notification configuration of your Kinesis video stream	Read	<a href="#">stream*</a>		
<a href="#">DescribeSignalingChannel</a>	Grants permission to describe the specified signaling channel	List	<a href="#">channel*</a>		
<a href="#">DescribeStream</a>	Grants permission to describe the specified Kinesis video stream	List	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStreamStorageConfiguration</a>	Grants permission to describe the stream storage configuration of your Kinesis Video Stream	Read	<a href="#">stream*</a>		
<a href="#">GetClip</a>	Grants permission to get a media clip from a video stream	Read	<a href="#">stream*</a>		
<a href="#">GetDASHStreamingSessionURL</a>	Grants permission to create a URL for MPEG-DASH video streaming	Read	<a href="#">stream*</a>		
<a href="#">GetDataEndpoint</a>	Grants permission to get an endpoint for a specified stream for either reading or writing media data to Kinesis Video Streams	Read	<a href="#">stream*</a>		
<a href="#">GetHLSStreamingSessionURL</a>	Grants permission to create a URL for HLS video streaming	Read	<a href="#">stream*</a>		
<a href="#">GetIceServerConfig</a>	Grants permission to get the ICE server configuration	Read	<a href="#">channel*</a>		
<a href="#">GetImages</a>	Grants permission to get generated images from your Kinesis video stream	Read	<a href="#">stream*</a>		
<a href="#">GetMedia</a>	Grants permission to return media content of a Kinesis video stream	Read	<a href="#">stream*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMediaForFragmentList</a>	Grants permission to read and return media data only from persisted storage	Read	<a href="#">stream*</a>		
<a href="#">GetSignalingChannelEndpoint</a>	Grants permission to get endpoints for a specified combination of protocol and role for a signaling channel	Read	<a href="#">channel*</a>		
<a href="#">JoinStorageSession</a>	Grants permission to join a storage session for a channel	Write	<a href="#">channel*</a>		
<a href="#">JoinStorageSessionAsViewer</a>	Grants permission to join a storage session for a channel as viewer	Write	<a href="#">channel*</a>		
<a href="#">ListEdgeAgentConfigurations</a>	Grants permission to list an edge agent configurations	List			
<a href="#">ListFragments</a>	Grants permission to list the fragments from archival storage based on the pagination token or selector type with range specified	List	<a href="#">stream*</a>		
<a href="#">ListSignalingChannels</a>	Grants permission to list your signaling channels	List			
<a href="#">ListStreams</a>	Grants permission to list your Kinesis video streams	List			
<a href="#">ListTagsForResource</a>		Read	<a href="#">channel</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to fetch the tags associated with your resource		<a href="#">stream</a>		
<a href="#">ListTagsForStream</a>	Grants permission to fetch the tags associated with Kinesis video stream	Read	<a href="#">stream*</a>		
<a href="#">PutMedia</a>	Grants permission to send media data to a Kinesis video stream	Write	<a href="#">stream*</a>		
<a href="#">SendAlexaOfferToMaster</a>	Grants permission to send the Alexa SDP offer to the master	Write	<a href="#">channel*</a>		
<a href="#">StartEdgeConfigurationUpdate</a>	Grants permission to start edge configuration update of your Kinesis Video Stream	Write	<a href="#">stream*</a>		
<a href="#">TagResource</a>	Grants permission to attach set of tags to your resource	Tagging	<a href="#">channel</a>		
			<a href="#">stream</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">TagStream</a>	Grants permission to attach set of tags to your Kinesis video streams	Tagging	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from your resource	Tagging	<a href="#">channel</a> <a href="#">stream</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UntagStream</a>	Grants permission to remove one or more tags from your Kinesis video streams	Tagging	<a href="#">stream*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDataRetention</a>	Grants permission to update the data retention period of your Kinesis video stream	Write	<a href="#">stream*</a>		
<a href="#">UpdateImageGenerationConfiguration</a>	Grants permission to update the image generation configuration of your Kinesis video stream	Write	<a href="#">stream*</a>		
<a href="#">UpdateMediaStorageConfiguration</a>	Grants permission to create or update an mapping between a signaling channel and stream	Write	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotificationConfiguration</a>	Grants permission to update the notification configuration of your Kinesis video stream	Write	<a href="#">stream*</a>		
<a href="#">UpdateSignalingChannel</a>	Grants permission to update an existing signaling channel	Write	<a href="#">channel*</a>		
<a href="#">UpdateStream</a>	Grants permission to update an existing Kinesis video stream	Write	<a href="#">stream*</a>		
<a href="#">UpdateStreamStorageConfiguration</a>	Grants permission to update the stream storage configuration of your Kinesis Video Stream	Write	<a href="#">stream*</a>		

## Resource types defined by Amazon Kinesis Video Streams

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">stream</a>	arn:\${Partition}:kinesisvideo:\${Region}:\${Account}:stream/\${StreamName}/\${CreationTime}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">channel</a>	arn:\${Partition}:kinesisvideo:\${Region}:\${Account}:channel/\${ChannelName}/\${CreationTime}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Kinesis Video Streams

Amazon Kinesis Video Streams defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters requests based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the stream	String
<a href="#">aws:TagKeys</a>	Filters requests based on the presence of mandatory tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Lake Formation

AWS Lake Formation (service prefix: lakeformation) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Lake Formation](#)
- [Resource types defined by AWS Lake Formation](#)
- [Condition keys for AWS Lake Formation](#)

## Actions defined by AWS Lake Formation


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddLFTagsToResource</a>	Grants permission to attach Lake Formation tags to catalog resources	Tagging			
<a href="#">BatchGrantPermissions</a>	Grants permission to data lake permissions to one or more principals in a batch	Permissions management			
<a href="#">BatchRevokePermissions</a>	Grants permission to revoke data lake permissions from one or more principals in a batch	Permissions management			
<a href="#">CancelTransaction</a>	Grants permission to cancel the given transaction	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CommitTransaction</a>	Grants permission to commit the given transaction	Write			
<a href="#">CreateDataCellsFilter</a>	Grants permission to create a Lake Formation data cell filter	Write			
<a href="#">CreateLFTag</a>	Grants permission to create a Lake Formation tag	Write			
<a href="#">CreateLFTagExpression</a>	Grants permission to create a Lake Formation tag expression	Write			
<a href="#">CreateLakeFormationIdentityCenterConfiguration</a>	Grants permission to create an IAM Identity Center connection with Lake Formation to allow IAM Identity Center users and groups to access Data Catalog resources	Write			
<a href="#">CreateLakeFormationOption</a>	Grants permission to enforce Lake Formation permissions for the given databases, tables, and principals	Write			
<a href="#">DeleteDataCellsFilter</a>	Grants permission to delete a Lake Formation data cell filter	Write			
<a href="#">DeleteLFTag</a>	Grants permission to delete a Lake Formation tag	Write			
<a href="#">DeleteLFTagExpression</a>	Grants permission to delete a Lake Formation expression	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLakeFormationIdentityCenterConfiguration</a>	Grants permission to delete an IAM Identity Center connection with Lake Formation	Write			
<a href="#">DeleteLakeFormationOptIn</a>	Grants permission to remove the Lake Formation permissions enforcement of the given databases, tables, and principals	Write			
<a href="#">DeleteObjectsOnCancel</a>	Grants permission to delete the specified objects if the transaction is canceled	Write			
<a href="#">DeregisterResource</a>	Grants permission to deregister a registered location	Write			
<a href="#">DescribeLakeFormationIdentityCenterConfiguration</a>	Grants permission to describe the IAM Identity Center connection with Lake Formation	Read			
<a href="#">DescribeResource</a>	Grants permission to describe a registered location	Read			
<a href="#">DescribeTransaction</a>	Grants permission to get status of the given transaction	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExtendTransaction</a>	Grants permission to extend the timeout of the given transaction	Write			
<a href="#">GetDataAccess</a>	Grants permission to virtual data lake access	Write		<a href="#">lakeformation:EnabledOnlyForMetadataAccess</a>	
<a href="#">GetDataCellsFilter</a>	Grants permission to retrieve a Lake Formation data cell filter	Read			
<a href="#">GetDataLakePrincipal</a>	Grants permission to retrieve the identity of the invoking principal	Read			
<a href="#">GetDataLakeSettings</a>	Grants permission to retrieve data lake settings such as the list of data lake administrators and database and table default permissions	Read			
<a href="#">GetEffectivePermissionsForPath</a>	Grants permission to retrieve permissions attached to resources in the given path	Read			
<a href="#">GetLFTag</a>	Grants permission to retrieve a Lake Formation tag	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLFTagExpression</a>	Grants permission to retrieve a Lake Formation tag expression	Read			
<a href="#">GetQueryState</a>	Grants permission to retrieve the state of the given query	Read			lakeformation:StartQueryPlanning
<a href="#">GetQueryStatistics</a>	Grants permission to retrieve the statistics for the given query	Read			lakeformation:StartQueryPlanning
<a href="#">GetResourceLFTags</a>	Grants permission to retrieve lakeformation tags on a catalog resource	Read			
<a href="#">GetTableObjects</a>	Grants permission to retrieve objects from a table	Read			
<a href="#">GetTemporaryGluePartitionCredentials</a>	Grants permission to get temporary credentials to access Glue partition data through Lake Formation	Read			
<a href="#">GetTemporaryGlueTableCredentials</a>	Grants permission to get temporary credentials to access Glue table data through Lake Formation	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetWorkUnitResults</a>	Grants permission to retrieve the results for the given work units	Read			lakeformation:GetWorkUnits  lakeformation:StartQueryPlanning
<a href="#">GetWorkUnits</a>	Grants permission to retrieve the work units for the given query	Read			lakeformation:StartQueryPlanning
<a href="#">GrantPermissions</a>	Grants permission to data lake permissions to a principal	Permissions management			
<a href="#">ListDataCellsFilter</a>	Grants permission to list cell filters	List			
<a href="#">ListLFTagExpressions</a>	Grants permission to list Lake Formation tag expressions	Read			
<a href="#">ListLFTags</a>	Grants permission to list Lake Formation tags	Read			
<a href="#">ListLakeFormationOptions</a>	Grants permission to retrieve the current list of resources and principals that are opt in to enforce Lake Formation permissions	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPermissions</a>	Grants permission to list permissions filtered by principal or resource	List			
<a href="#">ListResources</a>	Grants permission to List registered locations	List			
<a href="#">ListTableStorageOptimizers</a>	Grants permission to list all the storage optimizers for the Governed table	List			
<a href="#">ListTransactions</a>	Grants permission to list all transactions in the system	List			
<a href="#">PutDataLakeSettings</a>	Grants permission to overwrite data lake settings such as the list of data lake administrators and database and table default permissions	Permissions management			
<a href="#">RegisterResource</a>	Grants permission to register a new location to be managed by Lake Formation	Write			
<a href="#">RegisterResourceWithPrivilegedAccess</a>	Grants permission to register a new location to be managed by Lake Formation, with privileged access	Write			
<a href="#">RemoveLFTagsFromResource</a>	Grants permission to remove lakeformation tags from catalog resources	Tagging			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokePermissions</a>	Grants permission to revoke data lake permissions from a principal	Permissions management			
<a href="#">SearchDatabasesByLFTags</a>	Grants permission to list catalog databases with Lake Formation tags	Read			
<a href="#">SearchTablesByLFTags</a>	Grants permission to list catalog tables with Lake Formation tags	Read			
<a href="#">StartQueryPlanning</a>	Grants permission to initiate the planning of the given query	Write			
<a href="#">StartTransaction</a>	Grants permission to start a new transaction	Write			
<a href="#">UpdateDataCellsFilter</a>	Grants permission to update a Lake Formation data cell filter	Write			
<a href="#">UpdateLFTag</a>	Grants permission to update a Lake Formation tag	Write			
<a href="#">UpdateLFTagExpression</a>	Grants permission to update a Lake Formation expression	Write			
<a href="#">UpdateLakeFormationIdentityCenterConfiguration</a>	Grants permission to update the IAM Identity Center connection parameters	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateResource</a>	Grants permission to update a registered location	Write			
<a href="#">UpdateTableObjects</a>	Grants permission to add or delete the specified objects to or from a table	Write			
<a href="#">UpdateTableStorageOptimizer</a>	Grants permission to update the configuration of the storage optimizer for the Governed table	Write			

## Resource types defined by AWS Lake Formation

AWS Lake Formation does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Lake Formation, specify "Resource": "\*" in your policy.

## Condition keys for AWS Lake Formation

AWS Lake Formation defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">lakeformation:Enable</a>	Filters access by the presence of the key configured for role's identity-based policy	Bool

Condition keys	Description	Type
<a href="#">ledOnlyFo</a> <a href="#">rMetaDataAccess</a>		

## Actions, resources, and condition keys for AWS Lambda

AWS Lambda (service prefix: `lambda`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Lambda](#)
- [Resource types defined by AWS Lambda](#)
- [Condition keys for AWS Lambda](#)

## Actions defined by AWS Lambda

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which



the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddLayerVersionPermission</a>	Grants permission to add permissions to the resource-based policy of a version of an AWS Lambda layer	Permissions management	<a href="#">layerVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddPermission</a>	Grants permission to give an AWS service or another account permission to use an AWS Lambda function	Permissions management	<a href="#">function*</a>	<a href="#">lambda:Principal</a> <a href="#">lambda:FunctionUrlAuthType</a>	
<a href="#">CheckpointDurableExecution</a>	Grants permission to save the progress of an AWS Lambda durable execution	Write	<a href="#">durableexecution*</a>		
<a href="#">CreateAlias</a>	Grants permission to create an alias for a Lambda function version	Write	<a href="#">function*</a>		
<a href="#">CreateCapacityProvider</a>	Grants permission to create an AWS Lambda capacity provider	Write	<a href="#">capacityProvider*</a>		iam:CreateServiceLinkedRole iam:PassRole kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">lambda:SecurityGroups</a> <a href="#">lambda:SubnetIds</a>	
<a href="#">CreateCodeSigningConfig</a>	Grants permission to create an AWS Lambda code signing config	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEventSourceMapping</a>	Grants permission to create a mapping between an event source and an AWS Lambda function	Write		<a href="#">lambda:FunctionArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFunction</a>	Grants permission to create an AWS Lambda function	Write	<a href="#">function*</a>	<a href="#">lambda:Layer</a> <a href="#">lambda:VpcIds</a> <a href="#">lambda:SubnetIds</a> <a href="#">lambda:SecurityGroupIds</a> <a href="#">lambda:CodeSigningConfigArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  lambda:PassCapacityProvider

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFunctionUrlConfig</a>	Grants permission to create a function url configuration for a Lambda function	Write	<a href="#">function*</a>	<a href="#">lambda:FunctionUrlAuthType</a> <a href="#">lambda:FunctionArn</a>	
<a href="#">DeleteAlias</a>	Grants permission to delete an AWS Lambda function alias	Write	<a href="#">function*</a>		
<a href="#">DeleteCapacityProvider</a>	Grants permission to delete an AWS Lambda capacity provider	Write	<a href="#">capacityProvider*</a>		
<a href="#">DeleteCodeSigningConfig</a>	Grants permission to delete an AWS Lambda code signing config	Write	<a href="#">code signing config*</a>		
<a href="#">DeleteEventSourceMapping</a>	Grants permission to delete an AWS Lambda event source mapping	Write	<a href="#">eventSourceMapping*</a> _	<a href="#">lambda:FunctionArn</a>	
<a href="#">DeleteFunction</a>	Grants permission to delete an AWS Lambda function	Write	<a href="#">function*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFunctionCodeSigningConfig</a>	Grants permission to detach a code signing config from an AWS Lambda function	Write	<a href="#">function*</a>		
<a href="#">DeleteFunctionConcurrency</a>	Grants permission to remove a concurrent execution limit from an AWS Lambda function	Write	<a href="#">function*</a>		
<a href="#">DeleteFunctionEventInvokeConfig</a>	Grants permission to delete the configuration for asynchronous invocation for an AWS Lambda function, version, or alias	Write	<a href="#">function*</a>		
<a href="#">DeleteFunctionUrlConfig</a>	Grants permission to delete function url configuration for a Lambda function	Write	<a href="#">function*</a>	<a href="#">lambda:FunctionUrlAuthType</a> <a href="#">lambda:FunctionArn</a>	
<a href="#">DeleteLayerVersion</a>	Grants permission to delete a version of an AWS Lambda layer	Write	<a href="#">layerVersion*</a>		
<a href="#">DeleteProvisionedConcurrencyConfig</a>	Grants permission to delete the provisioned concurrency configuration for an AWS Lambda function	Write	<a href="#">functionalias</a> <a href="#">functionversion</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableReplication</a> [permission only]	Grants permission to disable replication for a Lambda@Edge function	Permissions management	<a href="#">function*</a>		
<a href="#">EnableReplication</a> [permission only]	Grants permission to enable replication for a Lambda@Edge function	Permissions management	<a href="#">function*</a>		
<a href="#">GetAccountSettings</a>	Grants permission to view details about an account's limits and usage in an AWS Region	Read			
<a href="#">GetAlias</a>	Grants permission to view details about an AWS Lambda function alias	Read	<a href="#">function*</a>		
<a href="#">GetCapacityProvider</a>	Grants permission to view details about an AWS Lambda capacity provider	Read	<a href="#">capacityProvider*</a>		
<a href="#">GetCodeSigningConfig</a>	Grants permission to view details about an AWS Lambda code signing config	Read	<a href="#">code signing config*</a>		
<a href="#">GetDurableExecution</a>	Grants permission to view details of an AWS Lambda durable execution	Read	<a href="#">durable execution*</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDurableExecutionHistory</a>	Grants permission to view execution history of an AWS Lambda durable execution	Read	<a href="#">durable execution</a> * -		
<a href="#">GetDurableExecutionState</a>	Grants permission to view current state of an AWS Lambda durable execution	Read	<a href="#">durable execution</a> * -		
<a href="#">GetEventSourceMapping</a>	Grants permission to view details about an AWS Lambda event source mapping	Read	<a href="#">eventSourceMapping</a> * -		
				<a href="#">lambda:FunctionArn</a>	
<a href="#">GetFunction</a>	Grants permission to view details about an AWS Lambda function	Read	<a href="#">function</a> *		
<a href="#">GetFunctionCodeSigningConfig</a>	Grants permission to view the code signing config arn attached to an AWS Lambda function	Read	<a href="#">function</a> *		
<a href="#">GetFunctionConcurrency</a>	Grants permission to view details about the reserved concurrency configuration for a function	Read	<a href="#">function</a> *		
<a href="#">GetFunctionConfiguration</a>	Grants permission to view details about the version-specific settings of an AWS Lambda function or version	Read	<a href="#">function</a> *		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFunctionEventInvokeConfig</a>	Grants permission to view the configuration for asynchronous invocation for a function, version, or alias	Read	<a href="#">function*</a>		
<a href="#">GetFunctionRecursiveConfig</a>	Grants permission to view the recursion configuration of an AWS Lambda function	Read	<a href="#">function*</a>		
<a href="#">GetFunctionScalingConfig</a>	Grants permission to view the scaling configuration of an AWS Lambda function running on a capacity provider	Read	<a href="#">function*</a>		
<a href="#">GetFunctionUrlConfig</a>	Grants permission to read function url configuration for a Lambda function	Read	<a href="#">function*</a>	<a href="#">lambda:FunctionUrlAuthType</a> <a href="#">lambda:FunctionArn</a>	
<a href="#">GetLayerVersion</a>	Grants permission to view details about a version of an AWS Lambda layer. Note this action also supports GetLayerVersionByArn API	Read	<a href="#">layerVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLayerVersionPolicy</a>	Grants permission to view the resource-based policy for a version of an AWS Lambda layer	Read	<a href="#">layerVersion*</a>		
<a href="#">GetPolicy</a>	Grants permission to view the resource-based policy for an AWS Lambda function, version, or alias	Read	<a href="#">function*</a>		
<a href="#">GetProvisionedConcurrencyConfig</a>	Grants permission to view the provisioned concurrency configuration for an AWS Lambda function's alias or version	Read	<a href="#">functionalias</a>		
			<a href="#">functionversion</a>		
<a href="#">GetRuntimeManagementConfig</a>	Grants permission to view the runtime management configuration of an AWS Lambda function	Read	<a href="#">function*</a>		
<a href="#">InvokeAsync</a>	Grants permission to invoke a function asynchronously (Deprecated)	Write	<a href="#">function*</a>		
<a href="#">InvokeFunction</a>	Grants permission to invoke an AWS Lambda function	Write	<a href="#">function*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">lambda:EventSourceToken</a> <a href="#">lambda:InvokedViaFunctionUrl</a>	
<a href="#">InvokeFunctionUrl</a> [permission only]	Grants permission to invoke an AWS Lambda function through url	Write	<a href="#">function*</a>	<a href="#">lambda:FunctionUrlAuthType</a> <a href="#">lambda:FunctionArn</a> <a href="#">lambda:EventSourceToken</a>	
<a href="#">ListAliases</a>	Grants permission to retrieve a list of aliases for an AWS Lambda function	List	<a href="#">function*</a>		
<a href="#">ListCapacityProviders</a>	Grants permission to retrieve a list of AWS Lambda capacity providers	List			
<a href="#">ListCodeSigningConfigs</a>	Grants permission to retrieve a list of AWS Lambda code signing configs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDurableExecutionsByFunction</a>	Grants permission to retrieve a list of AWS Lambda durable executions of an AWS Lambda function	List	<a href="#">function*</a>		
<a href="#">ListEventSourceMappings</a>	Grants permission to retrieve a list of AWS Lambda event source mappings	List			
<a href="#">ListFunctionEventInvokeConfigs</a>	Grants permission to retrieve a list of configurations for asynchronous invocation for a function	List	<a href="#">function*</a>		
<a href="#">ListFunctionUrlConfigs</a>	Grants permission to read function url configurations for a function	List	<a href="#">function*</a>	<a href="#">lambda:FunctionUrlAuthType</a>	
<a href="#">ListFunctionVersionsByCapacityProvider</a>	Grants permission to retrieve a list of AWS Lambda function versions by the capacity provider assigned	List	<a href="#">capacityProvider*</a>		
<a href="#">ListFunctions</a>	Grants permission to retrieve a list of AWS Lambda functions, with the version-specific configuration of each function	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFunctionsByCodeSigningConfig</a>	Grants permission to retrieve a list of AWS Lambda functions by the code signing config assigned	List	<a href="#">code signing config*</a>		
<a href="#">ListLayerVersions</a>	Grants permission to retrieve a list of versions of an AWS Lambda layer	List			
<a href="#">ListLayers</a>	Grants permission to retrieve a list of AWS Lambda layers, with details about the latest version of each layer	List			
<a href="#">ListProvisionedConcurrencyConfigs</a>	Grants permission to retrieve a list of provisioned concurrency configurations for an AWS Lambda function	List	<a href="#">function*</a>		
<a href="#">ListTags</a>	Grants permission to retrieve a list of tags for an AWS Lambda function, event source mapping, capacity provider, or code signing configuration resource	Read	<a href="#">capacityProvider</a> <a href="#">code signing config</a> <a href="#">eventSourceMapping</a> <a href="#">function</a>		
<a href="#">ListVersionsByFunction</a>	Grants permission to retrieve a list of versions for an AWS Lambda function	List	<a href="#">function*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PassCapacityProvider</a> [permission only]	Grants permission to pass an AWS Lambda capacity provider to a service	Write	<a href="#">capacityProvider*</a>		
<a href="#">PublishLayerVersion</a>	Grants permission to create an AWS Lambda layer	Write	<a href="#">layer*</a>		
<a href="#">PublishVersion</a>	Grants permission to create an AWS Lambda function version	Write	<a href="#">function*</a>		
<a href="#">PutFunctionCodeSigningConfig</a>	Grants permission to attach a code signing config to an AWS Lambda function	Write	<a href="#">code signing config*</a>		
			<a href="#">function*</a>		
				<a href="#">lambda:CodeSigningConfigArn</a>	
<a href="#">PutFunctionConcurrency</a>	Grants permission to configure reserved concurrency for an AWS Lambda function	Write	<a href="#">function*</a>		
<a href="#">PutFunctionEventInvokeConfig</a>	Grants permission to configures options for asynchronous invocation on an AWS Lambda function, version, or alias	Write	<a href="#">function*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFunctionRecursiveConfig</a>	Grants permission to update the recursion configuration of an AWS Lambda function	Write	<a href="#">function*</a>		
<a href="#">PutFunctionScalingConfig</a>	Grants permission to update the scaling configuration of an AWS Lambda function running on a capacity provider	Write	<a href="#">function*</a>		
<a href="#">PutProvisionedConcurrencyConfig</a>	Grants permission to configure provisioned concurrency for an AWS Lambda function's alias or version	Write	<a href="#">function alias</a>		
			<a href="#">function version</a>		
<a href="#">PutRuntimeManagementConfig</a>	Grants permission to update the runtime management configuration of an AWS Lambda function	Write	<a href="#">function*</a>		
<a href="#">RemoveLayerVersionPermission</a>	Grants permission to remove a statement from the permissions policy for a version of an AWS Lambda layer	Permissions management	<a href="#">layerVersion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemovePermission</a>	Grants permission to revoke function-use permission from an AWS service or another account	Permissions management	<a href="#">function*</a>	<a href="#">lambda:Principal</a> <a href="#">lambda:FunctionUrlAuthType</a>	
<a href="#">SendDurableExecutionCallbackFailure</a>	Grants permission to send a failure response for a callback operation in an AWS Lambda durable execution	Write	<a href="#">durable execution</a> *-		
<a href="#">SendDurableExecutionCallbackHeartbeat</a>	Grants permission to send a heartbeat for a callback operation in an AWS Lambda durable execution	Write	<a href="#">durable execution</a> *-		
<a href="#">SendDurableExecutionCallbackSuccess</a>	Grants permission to send a successful response for a callback operation in an AWS Lambda durable execution	Write	<a href="#">durable execution</a> *-		
<a href="#">StopDurableExecution</a>	Grants permission to stop an AWS Lambda durable execution	Write	<a href="#">durable execution</a> *-		
<a href="#">TagResource</a>	Grants permission to add tags to an AWS Lambda function, event source mapping, capacity provider, or code signing configuration resource	Tagging	<a href="#">capacityProvider</a> <a href="#">code signing config</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">eventSourceMapping</a>		
			<a href="#">function</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an AWS Lambda function, event source mapping, capacity provider, or code signing configuration resource	Tagging	<a href="#">capacityProvider</a>		
			<a href="#">codeSigningConfig</a>		
			<a href="#">eventSourceMapping</a>		
			<a href="#">function</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAlias</a>	Grants permission to update the configuration of an AWS Lambda function's alias	Write	<a href="#">function*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCapacityProvider</a>	Grants permission to update an AWS Lambda capacity provider	Write	<a href="#">capacityProvider*</a>		
<a href="#">UpdateCodeSigningConfig</a>	Grants permission to update an AWS Lambda code signing config	Write	<a href="#">code signing config*</a>		
<a href="#">UpdateEventSourceMapping</a>	Grants permission to update the configuration of an AWS Lambda event source mapping	Write	<a href="#">eventSourceMapping*</a>		
<a href="#">UpdateFunctionCode</a>	Grants permission to update the code of an AWS Lambda function	Write	<a href="#">function*</a>	<a href="#">lambda:FunctionArn</a>	
<a href="#">UpdateFunctionCodeSigningConfig</a>	Grants permission to update the code signing config of an AWS Lambda function	Write	<a href="#">code signing config*</a>		
<a href="#">UpdateFunctionConfiguration</a>	Grants permission to modify the version-specific settings of an AWS Lambda function	Write	<a href="#">function*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">lambda:Layer</a> <a href="#">lambda:Versions</a> <a href="#">lambda:SubnetIds</a> <a href="#">lambda:SecurityGroupIds</a>	
<a href="#">UpdateFunctionConfiguration</a>	Grants permission to modify the configuration for asynchronous invocation for an AWS Lambda function, version, or alias	Write	<a href="#">function*</a>		
<a href="#">UpdateFunctionUrlConfiguration</a>	Grants permission to update a function url configuration for a Lambda function	Write	<a href="#">function*</a>	<a href="#">lambda:FunctionUrlAuthType</a> <a href="#">lambda:FunctionArn</a>	

## Resource types defined by AWS Lambda

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">capacityProvider</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:capacity-provider:\${CapacityProviderName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">code signing config</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:code-signing-config:\${CodeSigningConfigId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">durable execution</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:function:\${FunctionName}:\${Version}/durable-execution/\${ExecutionName}/\${ExecutionId}	
<a href="#">eventSourceMapping</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:event-source-mapping:\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">function</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:function:\${FunctionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">function alias</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:function:\${FunctionName}:\${Alias}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">function version</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:function:\${FunctionName}:\${Version}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">layer</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:layer:\${LayerName}	

Resource types	ARN	Condition keys
<a href="#">layerVersion</a>	arn:\${Partition}:lambda:\${Region}:\${Account}:layer:\${LayerName}:\${LayerVersion}	

## Condition keys for AWS Lambda

AWS Lambda defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">lambda:CodeSigningConfigArn</a>	Filters access by the ARN of an AWS Lambda code signing config	ARN
<a href="#">lambda:EventSourceToken</a>	Filters access by the ID from a non-AWS event source configured for the AWS Lambda function	String
<a href="#">lambda:FunctionArn</a>	Filters access by the ARN of an AWS Lambda function	ARN

Condition keys	Description	Type
<a href="#">lambda:FunctionUrlAuthType</a>	Filters access by authorization type specified in request. Available during CreateFunctionUrlConfig, UpdateFunctionUrlConfig, DeleteFunctionUrlConfig, GetFunctionUrlConfig, ListFunctionUrlConfig, AddPermission and RemovePermission operations	String
<a href="#">lambda:InvokedViaFunctionUrl</a>	Limits the scope of lambda:InvokeFunction action to Function URLs only. Available during AddPermission operation	Bool
<a href="#">lambda:Layer</a>	Filters access by the ARN of a version of an AWS Lambda layer	ArrayOfString
<a href="#">lambda:Principal</a>	Filters access by restricting the AWS service or account that can invoke a function	String
<a href="#">lambda:SecurityGroupIds</a>	Filters access by the ID of security groups configured for the AWS Lambda function	ArrayOfString
<a href="#">lambda:SourceFunctionArn</a>	Filters access by the ARN of the AWS Lambda function from which the request originated	ARN
<a href="#">lambda:SubnetIds</a>	Filters access by the ID of subnets configured for the AWS Lambda function	ArrayOfString
<a href="#">lambda:VpcIds</a>	Filters access by the ID of the VPC configured for the AWS Lambda function	String

## Actions, resources, and condition keys for AWS Launch Wizard

AWS Launch Wizard (service prefix: `launchwizard`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Launch Wizard](#)
- [Resource types defined by AWS Launch Wizard](#)
- [Condition keys for AWS Launch Wizard](#)

## Actions defined by AWS Launch Wizard

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAdditionalNode</a> [permission only]	Grants permission to create an additional node	Write			
<a href="#">CreateDeployment</a>	Grants permission to create a deployment	Write	<a href="#">deployment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSettingsSet</a> [permission only]	Grants permission to create an application settings set	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAdditionalNode</a> [permission only]	Grants permission to delete an additional node	Write			
<a href="#">DeleteApp</a> [permission only]	Grants permission to delete an application	Write			
<a href="#">DeleteDeployment</a>	Grants permission to delete a deployment	Write	<a href="#">deployment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSettingsSet</a> [permission only]	Grants permission to delete a settings set	Write			
<a href="#">DescribeAdditionalNode</a> [permission only]	Grants permission to describe an additional node	Read			
<a href="#">DescribeProvisionedApp</a> [permission only]	Grants permission to describe provisioning applications	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeProvisioningEvents</a> [permission only]	Grants permission to describe provisioning events	Read			
<a href="#">DescribeSettingsSet</a> [permission only]	Grants permission to describe an application settings set	Read			
<a href="#">GetDeployment</a>	Grants permission to get a deployment	Read	<a href="#">deployment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeploymentPatternVersion</a>	Grants permission to get a version of a deployment pattern	Read			
<a href="#">GetInfrastructureSuggestion</a> [permission only]	Grants permission to get infrastructure suggestion	Read			
<a href="#">GetIpAddress</a> [permission only]	Grants permission to get customer's ip address	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourceCostEstimate</a> [permission only]	Grants permission to get resource cost estimate	Read			
<a href="#">GetResourceRecommendation</a> [permission only]	Grants permission to get recommendation for a resource	Read			
<a href="#">GetSettingsSet</a> [permission only]	Grants permission to get a settings set	Read			
<a href="#">GetWorkload</a>	Grants permission to get a workload	Read			
<a href="#">GetWorkloadAsset</a> [permission only]	Grants permission to get a workload's asset	Read			
<a href="#">GetWorkloadAssets</a> [permission only]	Grants permission to get workload assets	Read			
<a href="#">GetWorkloadDeploymentPattern</a>	Grants permission to get a deployment pattern	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAdditionalNodes</a> [permission only]	Grants permission to list additional nodes	List			
<a href="#">ListAllowedResources</a> [permission only]	Grants permission to list the allowed resources	List			
<a href="#">ListDeploymentEvents</a>	Grants permission to list the events that occurred during a deployment	List			
<a href="#">ListDeploymentPatternVersions</a>	Grants permission to list the versions of a deployment pattern	List			
<a href="#">ListDeployments</a>	Grants permission to list deployments	List			
<a href="#">ListProvisionedApps</a> [permission only]	Grants permission to list provisioning applications	List			
<a href="#">ListResourceCostEstimates</a> [permission only]	Grants permission to list the cost estimates of resources	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSettingsSets</a> [permission only]	Grants permission to list settings sets	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a LaunchWizard resource	Read	<a href="#">deployment</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListWorkloadDeploymentOptions</a> [permission only]	Grants permission to list deployment options of a given workload	List			
<a href="#">ListWorkloadDeploymentPatterns</a>	Grants permission to list the deployment patterns of a workload	List			
<a href="#">ListWorkloads</a>	Grants permission to list workloads	List			
<a href="#">PutSettingsSet</a> [permission only]	Grants permission to create a settings set	Write			
<a href="#">StartProvisioning</a> [permission only]	Grants permission to start a provisioning	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a LaunchWizard resource	Tagging	<a href="#">deployment</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a LaunchWizard resource	Tagging	<a href="#">deployment</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDeployment</a>	Grants permission to update a deployment	Write	<a href="#">deployment*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSettingsSet</a> [permission only]	Grants permission to update an application settings set	Write			

## Resource types defined by AWS Launch Wizard

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">deployment</a>	arn:\${Partition}:launchwizard:\${Region}:\${Account}:deployment/\${DeploymentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Launch Wizard

AWS Launch Wizard defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Lex

Amazon Lex (service prefix: `lex`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Lex](#)
- [Resource types defined by Amazon Lex](#)
- [Condition keys for Amazon Lex](#)

## Actions defined by Amazon Lex

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).


The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the



permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBotVersion</a>	Creates a new version based on the \$LATEST version of the specified bot	Write	<a href="#">bot version*</a>		
<a href="#">CreateIntentVersion</a>	Creates a new version based on the \$LATEST version of the specified intent	Write	<a href="#">intent version*</a>		
<a href="#">CreateSlotTypeVersion</a>	Creates a new version based on the \$LATEST version of the specified slot type	Write	<a href="#">slottype version*</a>		
<a href="#">DeleteBot</a>	Deletes all versions of a bot	Write	<a href="#">bot version*</a>		
<a href="#">DeleteBotAlias</a>	Deletes an alias for a specific bot	Write	<a href="#">bot alias*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBotChannelAssociation</a>	Deletes the association between a Amazon Lex bot alias and a messaging platform	Write	<a href="#">channel*</a>		
<a href="#">DeleteBotVersion</a>	Deletes a specific version of a bot	Write	<a href="#">bot version*</a>		
<a href="#">DeleteIntent</a>	Deletes all versions of an intent	Write	<a href="#">intent version*</a>		
<a href="#">DeleteIntentVersion</a>	Deletes a specific version of an intent	Write	<a href="#">intent version*</a>		
<a href="#">DeleteSession</a>	Removes session information for a specified bot, alias, and user ID	Write	<a href="#">bot alias</a> <a href="#">bot version</a>		
<a href="#">DeleteSlotType</a>	Deletes all versions of a slot type	Write	<a href="#">slottype version*</a>		
<a href="#">DeleteSlotTypeVersion</a>	Deletes a specific version of a slot type	Write	<a href="#">slottype version*</a>		
<a href="#">DeleteUtterances</a>	Deletes the information Amazon Lex maintains for utterances on a specific bot and userId	Write	<a href="#">bot version*</a>		
<a href="#">GetBot</a>	Returns information for a specific bot. In addition to the bot name, the bot version or alias is required	Read	<a href="#">bot alias</a> <a href="#">bot version</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBotAlias</a>	Returns information about a Amazon Lex bot alias	Read	<a href="#">bot alias*</a>		
<a href="#">GetBotAliases</a>	Returns a list of aliases for a given Amazon Lex bot	List			
<a href="#">GetBotChannelAssociation</a>	Returns information about the association between a Amazon Lex bot and a messaging platform	Read	<a href="#">channel*</a>		
<a href="#">GetBotChannelAssociations</a>	Returns a list of all of the channels associated with a single bot	List	<a href="#">channel*</a>		
<a href="#">GetBotVersions</a>	Returns information for all versions of a specific bot	List	<a href="#">bot version*</a>		
<a href="#">GetBots</a>	Returns information for the \$LATEST version of all bots, subject to filters provided by the client	List			
<a href="#">GetBuiltInIntent</a>	Returns information about a built-in intent	Read			
<a href="#">GetBuiltInIntents</a>	Gets a list of built-in intents that meet the specified criteria	Read			
<a href="#">GetBuiltInSlotTypes</a>	Gets a list of built-in slot types that meet the specified criteria	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExport</a>	Exports Amazon Lex Resource in a requested format	Read	<a href="#">bot version*</a>		
<a href="#">GetImport</a>	Gets information about an import job started with StartImport	Read			
<a href="#">GetIntent</a>	Returns information for a specific intent. In addition to the intent name, you must also specify the intent version	Read	<a href="#">intent version*</a>		
<a href="#">GetIntent Versions</a>	Returns information for all versions of a specific intent	List	<a href="#">intent version*</a>		
<a href="#">GetIntents</a>	Returns information for the \$LATEST version of all intents, subject to filters provided by the client	List			
<a href="#">GetMigration</a>	Grants permission to view an ongoing or completed migration	Read			
<a href="#">GetMigrations</a>	Grants permission to view list of migrations from Amazon Lex v1 to Amazon Lex v2	List			
<a href="#">GetSession</a>	Returns session information for a specified bot, alias, and user ID	Read	<a href="#">bot alias</a> <a href="#">bot version</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSlotType</a>	Returns information about a specific version of a slot type. In addition to specifying the slot type name, you must also specify the slot type version	Read	<a href="#">slottype</a> <a href="#">version*</a>		
<a href="#">GetSlotTypeVersions</a>	Returns information for all versions of a specific slot type	List	<a href="#">slottype</a> <a href="#">version*</a>		
<a href="#">GetSlotTypes</a>	Returns information for the \$LATEST version of all slot types, subject to filters provided by the client	List			
<a href="#">GetUtterancesView</a>	Returns a view of aggregate utterance data for versions of a bot for a recent time period	List	<a href="#">bot</a> <a href="#">version*</a>		
<a href="#">ListTagsForResource</a>	Lists tags for a Lex resource	Read	<a href="#">bot</a> <a href="#">bot alias</a> <a href="#">channel</a>		
<a href="#">PostContent</a>	Sends user input (text or speech) to Amazon Lex	Write	<a href="#">bot alias</a> <a href="#">bot</a> <a href="#">version</a>		
<a href="#">PostText</a>	Sends user input (text-only) to Amazon Lex	Write	<a href="#">bot alias</a> <a href="#">bot</a> <a href="#">version</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBot</a>	Creates or updates the \$LATEST version of a Amazon Lex conversational bot	Write	<a href="#">bot version*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">PutBotAlias</a>	Creates or updates an alias for the specific bot	Write	<a href="#">bot alias*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">PutIntent</a>	Creates or updates the \$LATEST version of an intent	Write	<a href="#">intent version*</a>		
<a href="#">PutSession</a>	Creates a new session or modifies an existing session with an Amazon Lex bot	Write	<a href="#">bot alias</a> <a href="#">bot version</a>		
<a href="#">PutSlotType</a>	Creates or updates the \$LATEST version of a slot type	Write	<a href="#">slottype version*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartImport</a>	Starts a job to import a resource to Amazon Lex	Write			
<a href="#">StartMigration</a>	Grants permission to migrate a bot from Amazon Lex v1 to Amazon Lex v2	Write	<a href="#">bot</a> <a href="#">version*</a>		
<a href="#">TagResource</a>	Adds or overwrites tags to a Lex resource	Tagging	<a href="#">bot</a>		
			<a href="#">bot alias</a>		
			<a href="#">channel</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Removes tags from a Lex resource	Tagging	<a href="#">bot</a>		
			<a href="#">bot alias</a>		
			<a href="#">channel</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

## Resource types defined by Amazon Lex

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">bot</a>	arn:\${Partition}:lex:\${Region}:\${Account}:bot:\${BotName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">bot version</a>	arn:\${Partition}:lex:\${Region}:\${Account}:bot:\${BotName}:\${BotVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">bot alias</a>	arn:\${Partition}:lex:\${Region}:\${Account}:bot:\${BotName}:\${BotAlias}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">channel</a>	arn:\${Partition}:lex:\${Region}:\${Account}:bot-channel:\${BotName}:\${BotAlias}:\${ChannelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">intent version</a>	arn:\${Partition}:lex:\${Region}:\${Account}:intent:\${IntentName}:\${IntentVersion}	
<a href="#">slottype version</a>	arn:\${Partition}:lex:\${Region}:\${Account}:slottype:\${SlotName}:\${SlotVersion}	

## Condition keys for Amazon Lex

Amazon Lex defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to a Lex resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the set of tag keys in the request	ArrayOfString
<a href="#">lex:associatedIntents</a>	Enables you to control access based on the intents included in the request	ArrayOfString
<a href="#">lex:associatedSlotTypes</a>	Enables you to control access based on the slot types included in the request	ArrayOfString
<a href="#">lex:channelType</a>	Enables you to control access based on the channel type included in the request	String

## Actions, resources, and condition keys for Amazon Lex V2

Amazon Lex V2 (service prefix: `lex`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Lex V2](#)
- [Resource types defined by Amazon Lex V2](#)

- [Condition keys for Amazon Lex V2](#)

## Actions defined by Amazon Lex V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCreateCustomVocabularyItem</a>	Grants permission to create new items in an existing custom vocabulary	Write	<a href="#">bot*</a>		
<a href="#">BatchDeleteCustomVocabularyItem</a>	Grants permission to delete existing items in an existing custom vocabulary	Write	<a href="#">bot*</a>		
<a href="#">BatchUpdateCustomVocabularyItem</a>	Grants permission to update existing items in an existing custom vocabulary	Write	<a href="#">bot*</a>		
<a href="#">BuildBotLocale</a>	Grants permission to build an existing bot locale in a bot	Write	<a href="#">bot*</a>		
<a href="#">CreateBot</a>	Grants permission to create a new bot and a test bot alias pointing to the DRAFT bot version	Write	<a href="#">bot*</a> <a href="#">bot alias*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateBot Alias</a>	Grants permission to create a new bot alias in a bot	Write	<a href="#">bot alias*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateBot Channel</a> [permission only]	Grants permission to create a bot channel in an existing bot	Write	<a href="#">bot*</a>		
<a href="#">CreateBot Locale</a>	Grants permission to create a new bot locale in an existing bot	Write	<a href="#">bot*</a>		
<a href="#">CreateBot Replica</a>	Grants permission to create bot replica for a bot	Write	<a href="#">bot*</a>		
<a href="#">CreateBot Version</a>	Grants permission to create a new version of an existing bot	Write	<a href="#">bot*</a>		
<a href="#">CreateCustomVocabulary</a> [permission only]	Grants permission to create a new custom vocabulary in an existing bot locale	Write	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateExport</a>	Grants permission to create an export for an existing resource	Write	<a href="#">bot</a>		
			<a href="#">test set</a>		
<a href="#">CreateIntent</a>	Grants permission to create a new intent in an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">CreateResourcePolicy</a>	Grants permission to create a new resource policy for a Lex resource	Write	<a href="#">bot</a>		
			<a href="#">bot alias</a>		
<a href="#">CreateResourcePolicyStatement</a>	Grants permission to create a new resource policy statement for a Lex resource	Write	<a href="#">bot</a>		
			<a href="#">bot alias</a>		
<a href="#">CreateSlot</a>	Grants permission to create a new slot in an intent	Write	<a href="#">bot*</a>		
<a href="#">CreateSlotType</a>	Grants permission to create a new slot type in an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">CreateTestSet</a> [permission only]	Grants permission to import a new test-set	Write			
<a href="#">CreateTestSetDiscrepancyReport</a>	Grants permission to create a test set discrepancy report	Write	<a href="#">test set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUploadUrl</a>	Grants permission to create an upload url for import file	Write			
<a href="#">DeleteBot</a>	Grants permission to delete an existing bot	Write	<a href="#">bot*</a>		lex:DeleteBotAlias  lex:DeleteBotChannel  lex:DeleteBotLocale  lex:DeleteBotVersion  lex:DeleteIntent  lex:DeleteSlot  lex:DeleteSlotType
			<a href="#">bot alias*</a>		
<a href="#">DeleteBotAlias</a>	Grants permission to delete an existing bot alias in a bot	Write	<a href="#">bot alias*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBotAnalyzerRecommendation</a>	Grants permission to delete a bot analyzer recommendation	Write	<a href="#">bot*</a>		
<a href="#">DeleteBotChannel</a> [permission only]	Grants permission to delete an existing bot channel	Write	<a href="#">bot*</a>		
<a href="#">DeleteBotLocale</a>	Grants permission to delete an existing bot locale in a bot	Write	<a href="#">bot*</a>		lex:DeleteIntent lex:DeleteSlot lex:DeleteSlotType
<a href="#">DeleteBotReplica</a>	Grants permission to delete an existing bot replica	Write	<a href="#">bot*</a>		
<a href="#">DeleteBotVersion</a>	Grants permission to delete an existing bot version	Write	<a href="#">bot*</a>		
<a href="#">DeleteCustomVocabulary</a>	Grants permission to delete an existing custom vocabulary in a bot locale	Write	<a href="#">bot*</a>		
<a href="#">DeleteExport</a>	Grants permission to delete an existing export	Write	<a href="#">bot</a> <a href="#">test set</a>		
<a href="#">DeleteImport</a>	Grants permission to delete an existing import	Write	<a href="#">bot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">test set</a>		
<a href="#">DeleteIntent</a>	Grants permission to delete an existing intent in a bot locale	Write	<a href="#">bot*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete an existing resource policy for a Lex resource	Write	<a href="#">bot</a> <a href="#">bot alias</a>		
<a href="#">DeleteResourcePolicyStatement</a>	Grants permission to delete an existing resource policy statement for a Lex resource	Write	<a href="#">bot</a> <a href="#">bot alias</a>		
<a href="#">DeleteSession</a>	Grants permission to delete session information for a bot alias and user ID	Write	<a href="#">bot alias*</a>		
<a href="#">DeleteSlot</a>	Grants permission to delete an existing slot in an intent	Write	<a href="#">bot*</a>		
<a href="#">DeleteSlotType</a>	Grants permission to delete an existing slot type in a bot locale	Write	<a href="#">bot*</a>		
<a href="#">DeleteTestSet</a>	Grants permission to delete an existing test set	Write	<a href="#">test set*</a>		
<a href="#">DeleteUtterances</a>	Grants permission to delete utterance data for a bot	Write	<a href="#">bot*</a>		
<a href="#">DescribeBot</a>	Grants permission to retrieve an existing bot	Read	<a href="#">bot*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBotAlias</a>	Grants permission to retrieve an existing bot alias	Read	<a href="#">bot alias*</a>		
<a href="#">DescribeBotAnalyzerRecommendation</a>	Grants permission to describe a bot analyzer recommendation	Read	<a href="#">bot*</a>		
<a href="#">DescribeBotChannel</a> [permission only]	Grants permission to retrieve an existing bot channel	Read	<a href="#">bot*</a>		
<a href="#">DescribeBotLocale</a>	Grants permission to retrieve an existing bot locale	Read	<a href="#">bot*</a>		
<a href="#">DescribeBotRecommendation</a>	Grants permission to retrieve metadata information about a bot recommendation	Read	<a href="#">bot*</a>		
<a href="#">DescribeBotReplica</a>	Grants permission to retrieve an existing bot replica	Read	<a href="#">bot*</a>		
<a href="#">DescribeBotResourceGeneration</a>	Grants permission to retrieve metadata information for a bot resource generation	Read	<a href="#">bot*</a>		
<a href="#">DescribeBotVersion</a>	Grants permission to retrieve an existing bot version	Read	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCustomVocabulary</a> [permission only]	Grants permission to retrieve an existing custom vocabulary	Read	<a href="#">bot*</a>		
<a href="#">DescribeCustomVocabularyMetadata</a>	Grants permission to retrieve metadata of an existing custom vocabulary	Read	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeExport</a>	Grants permission to retrieve an existing export	Read	<a href="#">bot</a>		lex:DescribeBot lex:DescribeBotLocale lex:DescribeIntent lex:DescribeSlot lex:DescribeSlotType lex:ListBotLocales lex:ListIntents lex:ListSlotTypes lex:ListSlots
<a href="#">DescribeImport</a>	Grants permission to retrieve an existing import	Read	<a href="#">bot</a>  <a href="#">test set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeIntent</a>	Grants permission to retrieve an existing intent	Read	<a href="#">bot*</a>		
<a href="#">DescribeResourcePolicy</a>	Grants permission to retrieve an existing resource policy for a Lex resource	Read	<a href="#">bot</a> <a href="#">bot alias</a>		
<a href="#">DescribeSlot</a>	Grants permission to retrieve an existing slot	Read	<a href="#">bot*</a>		
<a href="#">DescribeSlotType</a>	Grants permission to retrieve an existing slot type	Read	<a href="#">bot*</a>		
<a href="#">DescribeTestExecution</a>	Grants permission to retrieve test execution metadata	Read	<a href="#">test set*</a>		
<a href="#">DescribeTestSet</a>	Grants permission to retrieve an existing test set	Read	<a href="#">test set*</a>		
<a href="#">DescribeTestSetDiscrepancyReport</a>	Grants permission to retrieve test set discrepancy report metadata	Read	<a href="#">test set*</a>		
<a href="#">DescribeTestSetGeneration</a>	Grants permission to retrieve test set generation metadata	Read	<a href="#">test set</a>		
<a href="#">GenerateBotElement</a>	Grants permission to generate supported fields or elements for a bot	Read	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSession</a>	Grants permission to retrieve session information for a bot alias and user ID	Read	<a href="#">bot alias*</a>		
<a href="#">GetTestExecutionArtifactsUrl</a>	Grants permission to retrieve artifacts URL for a test execution	Read	<a href="#">test set*</a>		
<a href="#">ListAggregatedUtterances</a>	Grants permission to list utterances and statistics for a bot	List	<a href="#">bot*</a>		
<a href="#">ListBotAliasesReplicas</a>	Grants permission to list alias replicas in a bot replica	List	<a href="#">bot*</a>		
<a href="#">ListBotAliases</a>	Grants permission to list bot aliases in an bot	List	<a href="#">bot*</a>		
<a href="#">ListBotAnalyzerRecommendations</a>	Grants permission to list bot analyzer recommendations	List	<a href="#">bot*</a>		
<a href="#">ListBotChannels</a> [permission only]	Grants permission to list bot channels	List	<a href="#">bot*</a>		
<a href="#">ListBotLocales</a>	Grants permission to list bot locales in a bot	List	<a href="#">bot*</a>		
<a href="#">ListBotRecommendations</a>	Grants permission to get a list of bot recommendations that meet the specified criteria	List	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBotReplicas</a>	Grants permission to list replicas of a bot	List	<a href="#">bot*</a>		
<a href="#">ListBotResourceGenerations</a>	Grants permission to list the resource generations for a bot	List	<a href="#">bot*</a>		
<a href="#">ListBotVersionReplicas</a>	Grants permission to list version replicas in a bot replica	List	<a href="#">bot*</a>		
<a href="#">ListBotVersions</a>	Grants permission to list existing bot versions	List	<a href="#">bot*</a>		
<a href="#">ListBots</a>	Grants permission to list existing bots	List			
<a href="#">ListBuiltInIntents</a>	Grants permission to list built-in intents	List			
<a href="#">ListBuiltInSlotTypes</a>	Grants permission to list built-in slot types	List			
<a href="#">ListCustomVocabularyItems</a>	Grants permission to list items of an existing custom vocabulary	List	<a href="#">bot*</a>		
<a href="#">ListExports</a>	Grants permission to list existing exports	List			
<a href="#">ListImports</a>	Grants permission to list existing imports	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIntentMetrics</a>	Grants permission to list intent analytics metrics for a bot	List	<a href="#">bot*</a>		
<a href="#">ListIntentPaths</a>	Grants permission to list intent path analytics for a bot	List	<a href="#">bot*</a>		
<a href="#">ListIntentStageMetrics</a>	Grants permission to list intentStage analytics metrics for a bot	List	<a href="#">bot*</a>		
<a href="#">ListIntents</a>	Grants permission to list intents in a bot	List	<a href="#">bot*</a>		
<a href="#">ListRecommendedIntents</a>	Grants permission to get a list of recommended intents provided by the bot recommendation	List	<a href="#">bot*</a>		
<a href="#">ListSessionAnalyticsData</a>	Grants permission to list session analytics data for a bot	List	<a href="#">bot*</a>		
<a href="#">ListSessionMetrics</a>	Grants permission to list session analytics metrics for a bot	List	<a href="#">bot*</a>		
<a href="#">ListSlotTypes</a>	Grants permission to list slot types in a bot	List	<a href="#">bot*</a>		
<a href="#">ListSlots</a>	Grants permission to list slots in an intent	List	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to lists tags for a Lex resource	Read	<a href="#">bot</a> <a href="#">bot alias</a> <a href="#">test set</a>		
<a href="#">ListTestExecutionResultItems</a>	Grants permission to retrieve test results data for a test execution	Read	<a href="#">test set*</a>		lex:ListTestSetRecords
<a href="#">ListTestExecutions</a>	Grants permission to list test executions	List			
<a href="#">ListTestSetRecords</a>	Grants permission to retrieve records inside an existing test set	Read	<a href="#">test set*</a>		
<a href="#">ListTestSets</a>	Grants permission to list test sets	List			
<a href="#">PutSession</a>	Grants permission to create a new session or modify an existing session for a bot alias and user ID	Write	<a href="#">bot alias*</a>		
<a href="#">RecognizeText</a>	Grants permission to send user input (text-only) to an bot alias	Write	<a href="#">bot alias*</a>		
<a href="#">RecognizeUtterance</a>	Grants permission to send user input (text or speech) to an bot alias	Write	<a href="#">bot alias*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchAssociatedTranscripts</a>	Grants permission to search for associated transcripts that meet the specified criteria	List	<a href="#">bot*</a>		
<a href="#">StartBotAnalyzer</a>	Grants permission to start a bot analyzer for an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">StartBotRecommendation</a>	Grants permission to start a bot recommendation for an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">StartBotResourceGeneration</a>	Grants permission to start a resource generation for an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">StartConversation</a>	Grants permission to stream user input (speech/text/DTMF) to a bot alias	Write	<a href="#">bot alias*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartImport</a>	Grants permission to start a new import with the uploaded import file	Write	<a href="#">bot</a>		lex:CreateBot lex:CreateBotLocale lex:CreateCustomVocabulary lex:CreateIntent lex:CreateSlot lex:CreateSlotType lex:CreateTestSet lex>DeleteBotLocale lex>DeleteCustomVocabulary lex>DeleteIntent

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					lex:DeleteSlot
					lex:DeleteSlotType
					lex:UpdateBot
					lex:UpdateBotLocale
					lex:UpdateCustomVocabulary
					lex:UpdateIntent
					lex:UpdateSlot
					lex:UpdateSlotType
					lex:UpdateTestSet
			<a href="#">bot alias</a>		
			<a href="#">test set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">StartTestExecution</a>	Grants permission to start a test execution using a test set	Write	<a href="#">test set*</a>		
<a href="#">StartTestSetGeneration</a>	Grants permission to generate a test set	Write	<a href="#">test set</a>		
<a href="#">StopBotAnalyzer</a>	Grants permission to stop a bot analyzer for an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">StopBotRecommendation</a>	Grants permission to stop a bot recommendation for an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">TagResource</a>	Grants permission to add or overwrite tags of a Lex resource	Tagging	<a href="#">bot</a>		
			<a href="#">bot alias</a>		
			<a href="#">test set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a Lex resource	Tagging	<a href="#">bot</a> <a href="#">bot alias</a> <a href="#">test set</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBot</a>	Grants permission to update an existing bot	Write	<a href="#">bot*</a>		
<a href="#">UpdateBotAlias</a>	Grants permission to update an existing bot alias	Write	<a href="#">bot alias*</a>		
<a href="#">UpdateBotLocale</a>	Grants permission to update an existing bot locale	Write	<a href="#">bot*</a>		
<a href="#">UpdateBotRecommendation</a>	Grants permission to update an existing bot recommendation request	Write	<a href="#">bot*</a>		
<a href="#">UpdateCustomVocabulary [permission only]</a>	Grants permission to update an existing custom vocabulary	Write	<a href="#">bot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateExport</a>	Grants permission to update an existing export	Write	<a href="#">bot*</a>		
<a href="#">UpdateIntent</a>	Grants permission to update an existing intent	Write	<a href="#">bot*</a>		
<a href="#">UpdateResourcePolicy</a>	Grants permission to update an existing resource policy for a Lex resource	Write	<a href="#">bot</a> <a href="#">bot alias</a>		
<a href="#">UpdateSlot</a>	Grants permission to update an existing slot	Write	<a href="#">bot*</a>		
<a href="#">UpdateSlotType</a>	Grants permission to update an existing slot type	Write	<a href="#">bot*</a>		
<a href="#">UpdateTestSet</a>	Grants permission to update an existing test set	Write	<a href="#">test set*</a>		

## Resource types defined by Amazon Lex V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">bot</a>	arn:\${Partition}:lex:\${Region}:\${Account}:bot/\${BotId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">bot alias</a>	arn:\${Partition}:lex:\${Region}:\${Account}:bot-alias/\${BotId}/\${BotAliasId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">test set</a>	arn:\${Partition}:lex:\${Region}:\${Account}:test-set/\${TestSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Lex V2

Amazon Lex V2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to a Lex resource	String
<a href="#">aws:TagKeys</a>	Filters access by the set of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS License Manager

AWS License Manager (service prefix: `license-manager`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS License Manager](#)
- [Resource types defined by AWS License Manager](#)
- [Condition keys for AWS License Manager](#)

## Actions defined by AWS License Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.



The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptGrant</a>	Grants permission to accept a grant	Write	<a href="#">grant*</a>		
<a href="#">CheckInLicense</a>	Grants permission to check in license entitlements back to pool	Write			
<a href="#">CheckoutBorrowLicense</a>	Grants permission to check out license entitlements for borrow use case	Write	<a href="#">license*</a>		
<a href="#">CheckoutLicense</a>	Grants permission to check out license entitlements	Write			
<a href="#">CreateGrant</a>	Grants permission to create a new grant for license	Write	<a href="#">license*</a>	<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateGrantVersion</a>	Grants permission to create new version of grant	Write	<a href="#">grant*</a>		
<a href="#">CreateLicense</a>	Grants permission to create a new license	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLicenseAssetGroup</a>	Grants permission to create a license asset group	Write	<a href="#">license-asset-rule-set*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLicenseAssetRuleset</a>	Grants permission to create a license asset ruleset	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLicenseConfiguration</a>	Grants permission to create a new license configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLicenseConversionTaskForResource</a>	Grants permission to create a license conversion task for a resource	Write			
<a href="#">CreateLicenseManagerReportGenerator</a>	Grants permission to create a report generator for supported license manager resources	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLicenseVersion</a>	Grants permission to create new version of license	Write	<a href="#">license*</a>		
<a href="#">CreateToken</a>	Grants permission to create a new token for license	Write	<a href="#">license*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteGrant</a>	Grants permission to delete a grant	Write	<a href="#">grant*</a>		
<a href="#">DeleteLicense</a>	Grants permission to delete a license	Write	<a href="#">license*</a>		
<a href="#">DeleteLicenseAssetGroup</a>	Grants permission to delete a license asset group	Write	<a href="#">license-asset-group*</a>		
<a href="#">DeleteLicenseAssetRuleset</a>	Grants permission to delete a license asset ruleset	Write	<a href="#">license-asset-ruleset*</a>		
<a href="#">DeleteLicenseConfiguration</a>	Grants permission to permanently delete a license configuration	Write	<a href="#">license-configuration*</a>		
<a href="#">DeleteLicenseManagerReportGenerator</a>	Grants permission to delete a report generator	Write	<a href="#">report-generator*</a>		
<a href="#">DeleteToken</a>	Grants permission to delete token	Write			
<a href="#">ExtendLicenseConsumption</a>	Grants permission to extend consumption period of already checkout license entitlements	Write			
<a href="#">GetAccessToken</a>	Grants permission to get access token	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGrant</a>	Grants permission to get a grant	Read	<a href="#">grant*</a>		
<a href="#">GetLicense</a>	Grants permission to get a license	Read	<a href="#">license*</a>		
<a href="#">GetLicensesAssetGroup</a>	Grants permission to get a license asset group	Read	<a href="#">license-asset-group*</a>		
<a href="#">GetLicensesAssetRuleSet</a>	Grants permission to get a license asset ruleset	Read	<a href="#">license-asset-ruleset*</a>		
<a href="#">GetLicensesConfiguration</a>	Grants permission to get a license configuration	Read	<a href="#">license-configuration*</a>		
<a href="#">GetLicensesConversionTask</a>	Grants permission to retrieve a license conversion task	Read			
<a href="#">GetLicensesManagerReportGenerator</a>	Grants permission to get a report generator	Read	<a href="#">report-generator*</a>		
<a href="#">GetLicensesUsage</a>	Grants permission to get a license usage	Read	<a href="#">license*</a>		
<a href="#">GetServiceSettings</a>	Grants permission to get service settings	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssetsForLicenseAssetGroup</a>	Grants permission to list assets for a license asset group	List	<a href="#">license-asset-group*</a>		
<a href="#">ListAssociationsForLicenseConfiguration</a>	Grants permission to list associations for a selected license configuration	List	<a href="#">license-configuration*</a>		
<a href="#">ListDistributedGrants</a>	Grants permission to list distributed grants	List			
<a href="#">ListFailuresForLicenseConfigurationOperations</a>	Grants permission to list the license configuration operations that failed	List	<a href="#">license-configuration*</a>		
<a href="#">ListLicenseAssetGroups</a>	Grants permission to list license asset groups	List	<a href="#">license-asset-group</a>		
<a href="#">ListLicenseAssetRulesets</a>	Grants permission to list license asset rulesets	List	<a href="#">license-asset-rule-set</a>		
<a href="#">ListLicenseConfigurations</a>	Grants permission to list license configurations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListLicenseConfigurationsForOrganization</a>	Grants permission to list license configurations for organization	List			
<a href="#">ListLicenseConversionTasks</a>	Grants permission to list license conversion tasks	List			
<a href="#">ListLicenseManagerReportGenerators</a>	Grants permission to list report generators	List	<a href="#">license-configuration</a>		
<a href="#">ListLicenseSpecificationsForResource</a>	Grants permission to list license specifications associated with a selected resource	List			
<a href="#">ListLicenseVersions</a>	Grants permission to list license versions	List	<a href="#">license*</a>		
<a href="#">ListLicenses</a>	Grants permission to list licenses	Read			
<a href="#">ListReceivedGrants</a>	Grants permission to list received grants	List			
<a href="#">ListReceivedGrantsForOrganization</a>	Grants permission to list received grants for organization	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListReceivedLicenses</a>	Grants permission to list received licenses	List			
<a href="#">ListReceivedLicensesForOrganization</a>	Grants permission to list received licenses for organization	List			
<a href="#">ListResourceInventory</a>	Grants permission to list resource inventory	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a selected resource	Read	<a href="#">grant</a>		
			<a href="#">license</a>		
			<a href="#">license-asset-group</a>		
			<a href="#">license-asset-rule-set</a>		
			<a href="#">license-configuration</a>		
<a href="#">report-generator</a>					
<a href="#">ListTokens</a>	Grants permission to list tokens	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListUsageForLicenseConfiguration</a>	Grants permission to list usage records for selected license configuration	List	<a href="#">license-configuration*</a>		
<a href="#">RejectGrant</a>	Grants permission to reject a grant	Write	<a href="#">grant*</a>		
<a href="#">TagResource</a>	Grants permission to tag a selected resource	Tagging	<a href="#">grant</a>		
			<a href="#">license</a>		
			<a href="#">license-asset-group</a>		
			<a href="#">license-asset-rule-set</a>		
			<a href="#">license-configuration</a>		
			<a href="#">report-generator</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a selected resource	Tagging	<a href="#">grant</a> <a href="#">license</a> <a href="#">license-asset-group</a> <a href="#">license-asset-rule-set</a> <a href="#">license-configuration</a> <a href="#">report-generator</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateLicenseAssetGroup</a>	Grants permission to update a license asset group	Write	<a href="#">license-asset-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">license-asset-ruleset*</a>		
<a href="#">UpdateLicenseAssetRuleset</a>	Grants permission to update a license asset ruleset	Write	<a href="#">license-asset-ruleset*</a>		
<a href="#">UpdateLicenseConfiguration</a>	Grants permission to update an existing license configuration	Write	<a href="#">license-configuration*</a>		
<a href="#">UpdateLicenseManagerReportGenerator</a>	Grants permission to update a report generator for supported license manager resources	Write	<a href="#">report-generator*</a>		
<a href="#">UpdateLicenseSpecificationsForResource</a>	Grants permission to updates license specifications for a selected resource	Write	<a href="#">license-configuration*</a>		
<a href="#">UpdateServiceSettings</a>	Grants permission to updates service settings	Permissions management			

## Resource types defined by AWS License Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">license-configuration</a>	arn:\${Partition}:license-manager:\${Region}:\${Account}:license-configuration:\${LicenseConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">license-manager:ResourceTag/\${TagKey}</a>
<a href="#">license</a>	arn:\${Partition}:license-manager:::\${Account}:license:\${LicenseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">grant</a>	arn:\${Partition}:license-manager:::\${Account}:grant:\${GrantId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">report-generator</a>	arn:\${Partition}:license-manager:\${Region}:\${Account}:report-generator:\${ReportGeneratorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">license-manager:ResourceTag/\${TagKey}</a>
<a href="#">license-asset-ruleset</a>	arn:\${Partition}:license-manager:\${Region}:\${Account}:license-asset-ruleset:\${LicenseAssetRulesetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">license-asset-group</a>	arn:\${Partition}:license-manager:\${Region}:\${Account}:license-asset-group:\${LicenseAssetGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS License Manager

AWS License Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString
<a href="#">license-manager:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String

## Actions, resources, and condition keys for AWS License Manager Linux Subscriptions Manager

AWS License Manager Linux Subscriptions Manager (service prefix: `license-manager-linux-subscriptions`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS License Manager Linux Subscriptions Manager](#)
- [Resource types defined by AWS License Manager Linux Subscriptions Manager](#)
- [Condition keys for AWS License Manager Linux Subscriptions Manager](#)

## Actions defined by AWS License Manager Linux Subscriptions Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterSubscriptionProvider</a>	Grants permission to permanently delete a subscription provider in AWS License Manager	Write	<a href="#">subscription-provider*</a>		
<a href="#">GetRegisteredSubscriptionProvider</a>	Grants permission to get a subscription provider in AWS License Manager	Read	<a href="#">subscription-provider*</a>		
<a href="#">GetServiceSettings</a>	Grants permission to get the service settings for Linux subscriptions in AWS License Manager	Read			
<a href="#">ListLinuxSubscriptionInstances</a>	Grants permission to list all instances with Linux subscriptions in AWS License Manager	Read			
<a href="#">ListLinuxSubscriptions</a>	Grants permission to list all Linux subscriptions in AWS License Manager	Read			
<a href="#">ListRegisteredSubscriptionProviders</a>	Grants permission to list subscription providers in AWS License Manager	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a selected resource	Read	<a href="#">subscription-provider*</a>		
<a href="#">RegisterSubscriptionProvider</a>	Grants permission to create a new subscription provider in AWS License Manager	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to tag a selected resource	Tagging	<a href="#">subscription-provider*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a selected resource	Tagging	<a href="#">subscription-provider*</a>		
				<a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateServiceSettings</a>	Grants permission to update the service settings for Linux subscriptions in AWS License Manager	Write			

## Resource types defined by AWS License Manager Linux Subscriptions Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">subscription-provider</a>	arn:\${Partition}:license-manager-linux-subscriptions:\${Region}:\${Account}:subscription-provider/\${SubscriptionProviderId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS License Manager Linux Subscriptions Manager

AWS License Manager Linux Subscriptions Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS License Manager User Subscriptions

AWS License Manager User Subscriptions (service prefix: `license-manager-user-subscriptions`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS License Manager User Subscriptions](#)
- [Resource types defined by AWS License Manager User Subscriptions](#)
- [Condition keys for AWS License Manager User Subscriptions](#)

## Actions defined by AWS License Manager User Subscriptions

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate User</a>	Grants permission to associate a subscribed user to an instance launched with license manager user subscriptions products	Write	<a href="#">identity-provider*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLicenseServerEndpoint</a>	Grants permission to create a license server endpoint for a given server type for a given Identity Provider	Write	<a href="#">identity-provider*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteLicenseServerEndpoint</a>	Grants permission to delete a license server endpoint for a given server type for a given Identity Provider	Write	<a href="#">identity-provider*</a> <a href="#">license-server-endpoint*</a>		
<a href="#">DeregisterIdentityProvider</a>	Grants permission to deregister Microsoft Active Directory with license-m	Write	<a href="#">identity-provider*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	anager-user-subscriptions for a product				
<a href="#">DisassociateUser</a>	Grants permission to disassociate a subscribed user from an instance launched with license manager user subscriptions products	Write	<a href="#">identity-provider*</a> <a href="#">instance-user*</a>		
<a href="#">ListIdentityProviders</a>	Grants permission to list all the identity providers on license manager user subscriptions	List			
<a href="#">ListInstances</a>	Grants permission to list all the instances launched with license manager user subscription products	List			
<a href="#">ListLicenseServerEndpoints</a>	Grants permission to list license server endpoints	List			
<a href="#">ListProductSubscriptions</a>	Grants permission to lists all the product subscriptions for a product and identity provider	List	<a href="#">identity-provider*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a selected resource	Read	<a href="#">identity-provider*</a> <a href="#">instance-user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">license-server-endpoint*</a>		
			<a href="#">products_subscription*</a>		
<a href="#">ListUserAssociations</a>	Grants permission to list all the users associated to an instance launched for a product	List	<a href="#">identity-provider*</a>		
<a href="#">RegisterIdentityProvider</a>	Grants permission to registers Microsoft Active Directory with license-manager-user-subscriptions for a product	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartProductSubscription</a>	Grants permission to start product subscription for a user on a registered active directory for a product	Write	<a href="#">identity-provider*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopProductSubscription</a>	Grants permission to stop product subscription for a user on a registered active directory for a product	Write	<a href="#">identity-provider*</a>		
			<a href="#">product-subscription*</a>		
<a href="#">TagResource</a>	Grants permission to tag a selected resource	Tagging	<a href="#">identity-provider*</a>		
			<a href="#">instance-user*</a>		
			<a href="#">license-server-endpoint*</a>		
			<a href="#">product-subscription*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a selected resource	Tagging	<a href="#">identity-provider*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance-user*</a>		
			<a href="#">license-server-endpoint*</a>		
			<a href="#">products_subscription*</a>		
<a href="#">UpdateIdentityProviderSettings</a>	Grants permission to update the identity provider configuration	Write	<a href="#">identity-provider*</a>		

## Resource types defined by AWS License Manager User Subscriptions

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">identity-provider</a>	arn:\${Partition}:license-manager-user-subscriptions:\${Region}:\${Account}:identity-provider/\${IdentityProviderId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">product-subscription</a>	arn:\${Partition}:license-manager-user-subscriptions:\${Region}:\${Account}:product-subscription/\${ProductSubscriptionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">instance-user</a>	arn:\${Partition}:license-manager-user-subscriptions:\${Region}:\${Account}:instance-user/\${InstanceUserId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">license-server-endpoint</a>	arn:\${Partition}:license-manager-user-subscriptions:\${Region}:\${Account}:license-server-endpoint/\${LicenseServerEndpointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS License Manager User Subscriptions

AWS License Manager User Subscriptions defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Lightsail

Amazon Lightsail (service prefix: `lightsail`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Lightsail](#)
- [Resource types defined by Amazon Lightsail](#)
- [Condition keys for Amazon Lightsail](#)

## Actions defined by Amazon Lightsail

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllocateStaticIp</a>	Grants permission to create a static IP address that can be attached to an instance	Write			
<a href="#">AttachCertificateToDistribution</a>	Grants permission to attach an SSL/TLS certificate to your Amazon Lightsail content delivery network (CDN) distribution	Write	<a href="#">Certificate*</a> <a href="#">Distribution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachDisk</a>	Grants permission to attach a disk to an instance	Write	<a href="#">Disk*</a>		
<a href="#">AttachInstancesToLoadBalancer</a>	Grants permission to attach one or more instances to a load balancer	Write	<a href="#">LoadBalancer*</a>		
<a href="#">AttachLoadBalancerTlsCertificate</a>	Grants permission to attach a TLS certificate to a load balancer	Write	<a href="#">LoadBalancer*</a>		
<a href="#">AttachStaticIp</a>	Grants permission to attach a static IP address to an instance	Write	<a href="#">Instance*</a> <a href="#">StaticIp*</a>		
<a href="#">CloseInstancePublicPorts</a>	Grants permission to close a public port of an instance	Write	<a href="#">Instance*</a>		
<a href="#">CopySnapshot</a>	Grants permission to copy a snapshot from one AWS Region to another in Amazon Lightsail	Write			
<a href="#">CreateBucket</a>	Grants permission to create an Amazon Lightsail bucket	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBucketAccessKey</a>	Grants permission to create a new access key for the specified bucket	Write	<a href="#">Bucket*</a>		
<a href="#">CreateCertificate</a>	Grants permission to create an SSL/TLS certificate	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	lightsail: :CreateDomainEntry  lightsail: :GetDomains
<a href="#">CreateCloudFormationStack</a>	Grants permission to create a new Amazon EC2 instance from an exported Amazon Lightsail snapshot	Write			
<a href="#">CreateContactMethod</a>	Grants permission to create an email or SMS text message contact method	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateContainerService</a>	Grants permission to create an Amazon Lightsail container service	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateContainerServiceDeployment</a>	Grants permission to create a deployment for your Amazon Lightsail container service	Write	<a href="#">ContainerService*</a>		
<a href="#">CreateContainerServiceRegistryLogin</a>	Grants permission to create a temporary set of log in credentials that you can use to log in to the Docker process on your local machine	Write			
<a href="#">CreateDisk</a>	Grants permission to create a disk	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDiskFromSnapshot</a>	Grants permission to create a disk from snapshot	Write	<a href="#">DiskSnapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDiskSnapshot</a>	Grants permission to create a disk snapshot	Write	<a href="#">Disk</a> <a href="#">Instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDistribution</a>	Grants permission to create an Amazon Lightsail content delivery network (CDN) distribution	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDomain</a>	Grants permission to create a domain resource for the specified domain name	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	route53:DeleteHostedZone  route53:GetHostedZone  route53:ListHostedZonesByName  route53domains:GetDomainDetail  route53domains:GetOperationDetail  route53domains:ListDomains  route53domains:ListOperations  route53domains:Update



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ateDomain Nameserve rs
<a href="#">CreateDomainEntry</a>	Grants permission to create one or more DNS record entries for a domain resource: Address (A), canonical name (CNAME), mail exchanger (MX), name server (NS), start of authority (SOA), service locator (SRV), or text (TXT)	Write	<a href="#">Domain*</a>		
<a href="#">CreateGUISessionAccessDetails</a>	Grants permission to create URLs that are used to access an instance's graphical user interface (GUI) session	Write	<a href="#">Instance*</a>		
<a href="#">CreateInstanceSnapshot</a>	Grants permission to create an instance snapshot	Write	<a href="#">Instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInstances</a>	Grants permission to create one or more instances	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateInstancesFromSnapshot</a>	Grants permission to create one or more instances based on an instance snapshot	Write	<a href="#">InstanceSnapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateKeyPair</a>	Grants permission to create a key pair used to authenticate and connect to an instance	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLoadBalancer</a>	Grants permission to create a load balancer	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	lightsail: CreateDomainEntry  lightsail: GetDomains

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLoadBalancerTlsCertificate</a>	Grants permission to create a load balancer TLS certificate	Write	<a href="#">LoadBalancer*</a>		lightsail:CreateDomainEntry  lightsail:GetDomains
<a href="#">CreateRelationalDatabase</a>	Grants permission to create a new relational database	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateRelationalDatabaseFromSnapshot</a>	Grants permission to create a new relational database from a snapshot	Write	<a href="#">RelationalDatabaseSnapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRelationalDatabaseSnapshot</a>	Grants permission to create a relational database snapshot	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAlarm</a>	Grants permission to delete an alarm	Write	<a href="#">Alarm*</a>		
<a href="#">DeleteAutoSnapshot</a>	Grants permission to delete an automatic snapshot of an instance or disk	Write			
<a href="#">DeleteBucket</a>	Grants permission to delete an Amazon Lightsail bucket	Write	<a href="#">Bucket*</a>		
<a href="#">DeleteBucketAccessKey</a>	Grants permission to delete an access key for the specified Amazon Lightsail bucket	Write	<a href="#">Bucket*</a>		
<a href="#">DeleteCertificate</a>	Grants permission to delete an SSL/TLS certificate	Write	<a href="#">Certificate*</a>		
<a href="#">DeleteContactMethod</a>	Grants permission to delete a contact method	Write			
<a href="#">DeleteContainerImage</a>	Grants permission to delete a container image that is registered to your Amazon Lightsail container service	Write	<a href="#">ContainerService*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteContainerService</a>	Grants permission to delete your Amazon Lightsail container service	Write	<a href="#">ContainerService*</a>		
<a href="#">DeleteDisk</a>	Grants permission to delete a disk	Write	<a href="#">Disk*</a>		
<a href="#">DeleteDiskSnapshot</a>	Grants permission to delete a disk snapshot	Write	<a href="#">DiskSnapshot*</a>		
<a href="#">DeleteDistribution</a>	Grants permission to delete your Amazon Lightsail content delivery network (CDN) distribution	Write	<a href="#">Distribution*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete a domain resource and all of its DNS records	Write	<a href="#">Domain*</a>		
<a href="#">DeleteDomainEntry</a>	Grants permission to delete a DNS record entry for a domain resource	Write	<a href="#">Domain*</a>		
<a href="#">DeleteInstance</a>	Grants permission to delete an instance	Write	<a href="#">Instance*</a>		
<a href="#">DeleteInstanceSnapshot</a>	Grants permission to delete an instance snapshot	Write	<a href="#">InstanceSnapshot*</a>		
<a href="#">DeleteKeyPair</a>	Grants permission to delete a key pair used to authenticate and connect to an instance	Write	<a href="#">KeyPair*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteKnownHostKeys</a>	Grants permission to delete the known host key or certificate used by the Amazon Lightsail browser-based SSH or RDP clients to authenticate an instance	Write	<a href="#">Instance*</a>		
<a href="#">DeleteLoadBalancer</a>	Grants permission to delete a load balancer	Write	<a href="#">LoadBalancer*</a>		
<a href="#">DeleteLoadBalancerTlsCertificate</a>	Grants permission to delete a load balancer TLS certificate	Write	<a href="#">LoadBalancer*</a>		
<a href="#">DeleteRelationalDatabase</a>	Grants permission to delete a relational database	Write	<a href="#">RelationalDatabase*</a>		
<a href="#">DeleteRelationalDatabaseSnapshot</a>	Grants permission to delete a relational database snapshot	Write	<a href="#">RelationalDatabaseSnapshot*</a>		
<a href="#">DetachCertificateFromDistribution</a>	Grants permission to detach an SSL/TLS certificate from your Amazon Lightsail content delivery network (CDN) distribution	Write	<a href="#">Distribution*</a>		
<a href="#">DetachDisk</a>	Grants permission to detach a disk from an instance	Write	<a href="#">Disk*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachInstancesFromLoadBalancer</a>	Grants permission to detach one or more instances from a load balancer	Write	<a href="#">LoadBalancer*</a>		
<a href="#">DetachStaticIp</a>	Grants permission to detach a static IP from an instance to which it is attached	Write	<a href="#">StaticIp*</a>		
<a href="#">DisableAddOn</a>	Grants permission to disable an add-on for an Amazon Lightsail resource	Write			
<a href="#">DownloadDefaultKeyPair</a>	Grants permission to download the default key pair used to authenticate and connect to instances in a specific AWS Region	Write			
<a href="#">EnableAddOn</a>	Grants permission to enable or modify an add-on for an Amazon Lightsail resource	Write			
<a href="#">ExportSnapshot</a>	Grants permission to export an Amazon Lightsail snapshot to Amazon EC2	Write	<a href="#">DiskSnapshot</a>		iam:CreateServiceLinkedRole  iam:PutRolePolicy
			<a href="#">InstanceSnapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetActiveNames</a>	Grants permission to get the names of all active (not deleted) resources	Read			
<a href="#">GetAlarms</a>	Grants permission to view information about the configured alarms	Read			
<a href="#">GetAutoSnapshots</a>	Grants permission to view the available automatic snapshots for an instance or disk	Read			
<a href="#">GetBlueprints</a>	Grants permission to get a list of instance images, or blueprints. You can use a blueprint to create a new instance already running a specific operating system, as well as a pre-installed application or development stack. The software that runs on your instance depends on the blueprint you define when creating the instance	Read			
<a href="#">GetBucketAccessKeys</a>	Grants permission to get the existing access key IDs for the specified Amazon Lightsail bucket	Read			
<a href="#">GetBucketBundles</a>	Grants permission to get the bundles that can be applied to an Amazon Lightsail bucket	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketMetricData</a>	Grants permission to get the data points of a specific metric for an Amazon Lightsail bucket	Read			
<a href="#">GetBuckets</a>	Grants permission to get information about one or more Amazon Lightsail buckets	Read			
<a href="#">GetBundles</a>	Grants permission to get a list of instance bundles. You can use a bundle to create a new instance with a set of performance specifications, such as CPU count, disk size, RAM size, and network transfer allowance. The cost of your instance depends on the bundle you define when creating the instance	Read			
<a href="#">GetCertificates</a>	Grants permission to view information about one or more Amazon Lightsail SSL/TLS certificates	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCloudFormationStackRecords</a>	Grants permission to get information about all CloudFormation stacks used to create Amazon EC2 resources from exported Amazon Lightsail snapshots	Read			
<a href="#">GetContactMethods</a>	Grants permission to view information about the configured contact methods	Read			
<a href="#">GetContainerAPIMetadata</a>	Grants permission to view information about Amazon Lightsail containers, such as the current version of the Lightsail Control (lightsailctl) plugin	Read			
<a href="#">GetContainerImages</a>	Grants permission to view the container images that are registered to your Amazon Lightsail container service	Read			
<a href="#">GetContainerLog</a>	Grants permission to view the log events of a container of your Amazon Lightsail container service	Read			
<a href="#">GetContainerServiceDeployments</a>	Grants permission to view the deployments for your Amazon Lightsail container service	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetContainerServiceMetricData</a>	Grants permission to view the data points of a specific metric of your Amazon Lightsail container service	Read			
<a href="#">GetContainerServicePowers</a>	Grants permission to view the list of powers that can be specified for your Amazon Lightsail container services	Read			
<a href="#">GetContainerServices</a>	Grants permission to view information about one or more of your Amazon Lightsail container services	Read			
<a href="#">GetCostEstimate</a>	Grants permission to get the information about the cost estimate for a specified resource	Read	<a href="#">Disk</a> <a href="#">Instance</a>		
<a href="#">GetDisk</a>	Grants permission to get information about a disk	Read			
<a href="#">GetDiskSnapshot</a>	Grants permission to get information about a disk snapshot	Read			
<a href="#">GetDiskSnapshots</a>	Grants permission to get information about all disk snapshots	Read			
<a href="#">GetDisks</a>	Grants permission to get information about all disks	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDistributionBundles</a>	Grants permission to view the list of bundles that can be applied to your Amazon Lightsail content delivery network (CDN) distributions	Read			
<a href="#">GetDistributionLatestCacheReset</a>	Grants permission to view the timestamp and status of the last cache reset of a specific Amazon Lightsail content delivery network (CDN) distribution	Read			
<a href="#">GetDistributionMetricData</a>	Grants permission to view the data points of a specific metric for an Amazon Lightsail content delivery network (CDN) distribution	Read			
<a href="#">GetDistributions</a>	Grants permission to view information about one or more of your Amazon Lightsail content delivery network (CDN) distributions	Read			
<a href="#">GetDomain</a>	Grants permission to get DNS records for a domain resource	Read			
<a href="#">GetDomains</a>	Grants permission to get DNS records for all domain resources	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExportSnapshotRecords</a>	Grants permission to get information about all records of exported Amazon Lightsail snapshots to Amazon EC2	Read			
<a href="#">GetInstance</a>	Grants permission to get information about an instance	Read			
<a href="#">GetInstanceAccessDetails</a>	Grants permission to get temporary keys you can use to authenticate and connect to an instance	Write	<a href="#">Instance*</a>		
<a href="#">GetInstanceMetricData</a>	Grants permission to get the data points for the specified metric of an instance	Read			
<a href="#">GetInstancePortStates</a>	Grants permission to get the port states of an instance	Read			
<a href="#">GetInstanceSnapshot</a>	Grants permission to get information about an instance snapshot	Read			
<a href="#">GetInstanceSnapshots</a>	Grants permission to get information about all instance snapshots	Read			
<a href="#">GetInstanceState</a>	Grants permission to get the state of an instance	Read			
<a href="#">GetInstances</a>	Grants permission to get information about all instances	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetKeyPair</a>	Grants permission to get information about a key pair	Read			
<a href="#">GetKeyPairs</a>	Grants permission to get information about all key pairs	Read			
<a href="#">GetLoadBalancer</a>	Grants permission to get information about a load balancer	Read			
<a href="#">GetLoadBalancerMetricData</a>	Grants permission to get the data points for the specified metric of a load balancer	Read			
<a href="#">GetLoadBalancerCertificates</a>	Grants permission to get information about a load balancer's TLS certificates	Read			
<a href="#">GetLoadBalancerTlsPolicies</a>	Grants permission to get a list of TLS security policies that you can apply to Lightsail load balancers	Read			
<a href="#">GetLoadBalancers</a>	Grants permission to get information about load balancers	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOperation</a>	Grants permission to get information about an operation. Operations include events such as when you create an instance, allocate a static IP, attach a static IP, and so on	Read			
<a href="#">GetOperations</a>	Grants permission to get information about all operations. Operations include events such as when you create an instance, allocate a static IP, attach a static IP, and so on	Read			
<a href="#">GetOperationsForResource</a>	Grants permission to get operations for a resource	Read			
<a href="#">GetRegions</a>	Grants permission to get a list of all valid AWS Regions for Amazon Lightsail	Read			
<a href="#">GetRelationalDatabase</a>	Grants permission to get information about a relational database	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRelationalDatabaseBlueprints</a>	Grants permission to get a list of relational database images, or blueprints. You can use a blueprint to create a new database running a specific database engine. The database engine that runs on your database depends on the blueprint you define when creating the relational database	Read			
<a href="#">GetRelationalDatabaseBundles</a>	Grants permission to get a list of relational database bundles. You can use a bundle to create a new database with a set of performance specifications, such as CPU count, disk size, RAM size, network transfer allowance, and standard of high availability. The cost of your database depends on the bundle you define when creating the relational database	Read			
<a href="#">GetRelationalDatabaseEvents</a>	Grants permission to get events for a relational database	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRelationalDatabaseLogEvents</a>	Grants permission to get events for the specified log stream of a relational database	Read			
<a href="#">GetRelationalDatabaseLogStreams</a>	Grants permission to get the log streams available for a relational database	Read			
<a href="#">GetRelationalDatabaseMasterUserPassword</a>	Grants permission to get the master user password of a relational database	Write	<a href="#">RelationalDatabase</a> *		
<a href="#">GetRelationalDatabaseMetricData</a>	Grants permission to get the data points for the specified metric of a relational database	Read			
<a href="#">GetRelationalDatabaseParameters</a>	Grants permission to get the parameters of a relational database	Read			
<a href="#">GetRelationalDatabaseSnapshot</a>	Grants permission to get information about a relational database snapshot	Read			
<a href="#">GetRelationalDatabaseSnapshots</a>	Grants permission to get information about all relational database snapshots	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRelationalDatabases</a>	Grants permission to get information about all relational databases	Read			
<a href="#">GetSetupHistory</a>	Grants permission to get detailed information for setup requests that were run on the specified resource	Read	<a href="#">Instance</a>		
<a href="#">GetStaticIp</a>	Grants permission to get information about a static IP	Read			
<a href="#">GetStaticIps</a>	Grants permission to get information about all static IPs	Read			
<a href="#">ImportKeyPair</a>	Grants permission to import a public key from a key pair	Write			
<a href="#">IsVpcPeered</a>	Grants permission to get a boolean value indicating whether the Amazon Lightsail virtual private cloud (VPC) is peered	Read			
<a href="#">OpenInstancePublicPorts</a>	Grants permission to add, or open a public port of an instance	Write	<a href="#">Instance*</a>		
<a href="#">PeerVpc</a>	Grants permission to try to peer the Amazon Lightsail virtual private cloud (VPC) with the default VPC	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAlarm</a>	Grants permission to create or update an alarm, and associate it with the specified metric	Write	<a href="#">Alarm*</a>		
<a href="#">PutInstancePublicPorts</a>	Grants permission to set the specified open ports for an instance, and closes all ports for every protocol not included in the request	Write	<a href="#">Instance*</a>		
<a href="#">RebootInstance</a>	Grants permission to reboot an instance that is in a running state	Write	<a href="#">Instance*</a>		
<a href="#">RebootRelationalDatabase</a>	Grants permission to reboot a relational database that is in a running state	Write	<a href="#">RelationalDatabase*</a>		
<a href="#">RegisterContainerImage</a>	Grants permission to register a container image to your Amazon Lightsail container service	Write	<a href="#">ContainerService*</a>		
<a href="#">ReleaseStaticIp</a>	Grants permission to delete a static IP	Write	<a href="#">StaticIp*</a>		
<a href="#">ResetDistributionCache</a>	Grants permission to delete currently cached content from your Amazon Lightsail content delivery network (CDN) distribution	Write	<a href="#">Distribution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendContactMethodVerification</a>	Grants permission to send a verification request to an email contact method to ensure it's owned by the requester	Write			
<a href="#">SetIpAddressType</a>	Grants permission to set the IP address type for a Amazon Lightsail resource	Write	<a href="#">Distribution</a> <a href="#">Instance</a> <a href="#">LoadBalancer</a>		
<a href="#">SetResourceAccessForBucket</a>	Grants permission to set the Amazon Lightsail resources that can access the specified Amazon Lightsail bucket	Write	<a href="#">Bucket*</a> <a href="#">Instance*</a>		
<a href="#">SetupInstanceHttps</a>	Grants permission to create an SSL/TLS certificate and install it on a specified instance	Write	<a href="#">Instance*</a>		lightsail:GetInstanceAccessDetails
<a href="#">StartGUISession</a>	Grants permission to initiate a graphical user interface (GUI) session used to access an instance's operating system or application	Write	<a href="#">Instance*</a>		
<a href="#">StartInstance</a>	Grants permission to start an instance that is in a stopped state	Write	<a href="#">Instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartRelationalDatabase</a>	Grants permission to start a relational database that is in a stopped state	Write	<a href="#">RelationalDatabase</a> *		
<a href="#">StopGUISession</a>	Grants permission to terminate a graphical user interface (GUI) session used to access an instance's operating system or application	Write	<a href="#">Instance</a> *		
<a href="#">StopInstance</a>	Grants permission to stop an instance that is in a running state	Write	<a href="#">Instance</a> *		
<a href="#">StopRelationalDatabase</a>	Grants permission to stop a relational database that is in a running state	Write	<a href="#">RelationalDatabase</a> *		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">Bucket</a> <a href="#">Certificate</a> <a href="#">ContactMethod</a> <a href="#">ContainerService</a> <a href="#">Disk</a> <a href="#">DiskSnapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Distribution</a>		
			<a href="#">Domain</a>		
			<a href="#">Instance</a>		
			<a href="#">InstanceSnapshot</a>		
			<a href="#">KeyPair</a>		
			<a href="#">LoadBalancer</a>		
			<a href="#">RelationalDatabase</a>		
			<a href="#">RelationalDatabaseSnapshot</a>		
			<a href="#">StaticIp</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TestAlarm</a>	Grants permission to test an alarm by displaying a banner on the Amazon Lightsail console or if a notification trigger is configured for the specified alarm, by sending a notification to the notification protocol	Write	<a href="#">Alarm*</a>		
<a href="#">UnpeerVpc</a>	Grants permission to try to unpeer the Amazon Lightsail virtual private cloud (VPC) from the default VPC	Write			
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">Bucket</a>		
			<a href="#">Certificate</a>		
			<a href="#">ContactMethod</a>		
			<a href="#">ContainerService</a>		
			<a href="#">Disk</a>		
			<a href="#">DiskSnapshot</a>		
			<a href="#">Distribution</a>		
			<a href="#">Domain</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Instance</a>		
			<a href="#">InstanceSnapshot</a>		
			<a href="#">KeyPair</a>		
			<a href="#">LoadBalancer</a>		
			<a href="#">RelationalDatabase</a>		
			<a href="#">RelationalDatabaseSnapshot</a>		
			<a href="#">StaticIp</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBucket</a>	Grants permission to update an existing Amazon Lightsail bucket	Write	<a href="#">Bucket*</a>		
<a href="#">UpdateBucketBundle</a>	Grants permission to update the bundle, or storage plan, of an existing Amazon Lightsail bucket	Write	<a href="#">Bucket*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContainerService</a>	Grants permission to update the configuration of your Amazon Lightsail container service, such as its power, scale, and public domain names	Write	<a href="#">ContainerService*</a>		
<a href="#">UpdateDistribution</a>	Grants permission to update an existing Amazon Lightsail content delivery network (CDN) distribution or its configuration	Write	<a href="#">Distribution*</a>		
<a href="#">UpdateDistributionBundle</a>	Grants permission to update the bundle of your Amazon Lightsail content delivery network (CDN) distribution	Write	<a href="#">Distribution*</a>		
<a href="#">UpdateDomainEntry</a>	Grants permission to update a domain recordset after it is created	Write	<a href="#">Domain*</a>		
<a href="#">UpdateInstanceMetadataOptions</a>	Grants permission to update metadata options for an instance	Write	<a href="#">Instance*</a>		
<a href="#">UpdateLoadBalancerAttribute</a>	Grants permission to update a load balancer attribute, such as the health check path and session stickiness	Write	<a href="#">LoadBalancer*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRelationalDatabase</a>	Grants permission to update a relational database	Write	<a href="#">RelationalDatabase</a> *		
<a href="#">UpdateRelationalDatabaseParameters</a>	Grants permission to update the parameters of a relational database	Write	<a href="#">RelationalDatabase</a> *		

## Resource types defined by Amazon Lightsail

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Domain</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Domain/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Instance</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Instance/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">InstanceSnapshot</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:InstanceSnapshot/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">KeyPair</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:KeyPair/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">StaticIp</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:StaticIp/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Disk</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Disk/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">DiskSnaps hot</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:DiskSnapshot/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">LoadBalancer</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:LoadBalancer/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">LoadBalancerTlsCertificate</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:LoadBalancerTlsCertificate/\${Id}	
<a href="#">ExportSnapshotRecord</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:ExportSnapshotRecord/\${Id}	
<a href="#">CloudFormationStackRecord</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:CloudFormationStackRecord/\${Id}	
<a href="#">RelationalDatabase</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:RelationalDatabase/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RelationalDatabaseSnapshot</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:RelationalDatabaseSnapshot/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Alarm</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Alarm/\${Id}	
<a href="#">Certificate</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Certificate/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ContactMethod</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:ContactMethod/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ContainerService</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:ContainerService/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Distribution</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Distribution/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Bucket</a>	arn:\${Partition}:lightsail:\${Region}:\${Account}:Bucket/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Lightsail

Amazon Lightsail defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Location

Amazon Location (service prefix: geo) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Location](#)
- [Resource types defined by Amazon Location](#)
- [Condition keys for Amazon Location](#)

## Actions defined by Amazon Location

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateTrackerConsumer</a>	Grants permission to create an association between a geofence-collection and a tracker resource	Write	<a href="#">tracker*</a>		
<a href="#">BatchDeleteDevicePositionHistory</a>	Grants permission to delete a batch of device position histories from a tracker resource	Write	<a href="#">tracker*</a>	<a href="#">geo:Devices</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteGeofence</a>	Grants permission to delete a batch of geofences from a geofence collection	Write	<a href="#">geofence-collection*</a>	<a href="#">geo:Geofences</a>	
<a href="#">BatchEvaluateGeofences</a>	Grants permission to evaluate device positions against the position of geofences in a given geofence collection	Write	<a href="#">geofence-collection*</a>		
<a href="#">BatchGetDevicePosition</a>	Grants permission to send a batch request to retrieve device positions	Read	<a href="#">tracker*</a>	<a href="#">geo:Devices</a>	
<a href="#">BatchPutGeofence</a>	Grants permission to send a batch request for adding geofences into a given geofence collection	Write	<a href="#">geofence-collection*</a>	<a href="#">geo:Geofences</a>	
<a href="#">BatchUpdateDevicePosition</a>	Grants permission to upload a position update for one or more devices to a tracker resource	Write	<a href="#">tracker*</a>	<a href="#">geo:Devices</a>	
<a href="#">CalculateRoute</a>	Grants permission to calculate routes using a given route calculator resource	Read	<a href="#">route-calculator*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CalculateRouteMatrix</a>	Grants permission to calculate a route matrix using a given route calculator resource	Read	<a href="#">route-calculator*</a>		
<a href="#">CreateGeofenceCollection</a>	Grants permission to create a geofence-collection	Write	<a href="#">geofence-collection*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateKey</a>	Grants permission to create an API key resource	Write	<a href="#">api-key*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMap</a>	Grants permission to create a map resource	Write	<a href="#">map*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePlaceIndex</a>	Grants permission to create a place index resource	Write	<a href="#">place-index*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRouteCalculator</a>	Grants permission to create a route calculator resource	Write	<a href="#">route-calculator*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTracker</a>	Grants permission to create a tracker resource	Write	<a href="#">tracker*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteGeofenceCollection</a>	Grants permission to delete a geofence-collection	Write	<a href="#">geofence-collection*</a>		
<a href="#">DeleteKey</a>	Grants permission to delete an API key resource	Write	<a href="#">api-key*</a>		
<a href="#">DeleteMap</a>	Grants permission to delete a map resource	Write	<a href="#">map*</a>		
<a href="#">DeletePlaceIndex</a>	Grants permission to delete a place index resource	Write	<a href="#">place-index*</a>		
<a href="#">DeleteRouteCalculator</a>	Grants permission to delete a route calculator resource	Write	<a href="#">route-calculator*</a>		
<a href="#">DeleteTracker</a>	Grants permission to delete a tracker resource	Write	<a href="#">tracker*</a>		
<a href="#">DescribeGeofenceCollection</a>	Grants permission to retrieve geofence collection details	Read	<a href="#">geofence-collection*</a>		
<a href="#">DescribeKey</a>	Grants permission to retrieve API key resource details and secret	Read	<a href="#">api-key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMap</a>	Grants permission to retrieve map resource details	Read	<a href="#">map*</a>		
<a href="#">DescribePlaceIndex</a>	Grants permission to retrieve place-index resource details	Read	<a href="#">place-index*</a>		
<a href="#">DescribeRouteCalculator</a>	Grants permission to retrieve route calculator resource details	Read	<a href="#">route-calculator*</a>		
<a href="#">DescribeTracker</a>	Grants permission to retrieve a tracker resource details	Read	<a href="#">tracker*</a>		
<a href="#">DisassociateTrackerConsumer</a>	Grants permission to remove the association between a tracker resource and a geofence-collection	Write	<a href="#">tracker*</a>		
<a href="#">ForecastGeofenceEvents</a>	Grants permission to forecast events for geofences stored in a given geofence collection	Read	<a href="#">geofence-collection*</a>		
<a href="#">GetDevicePosition</a>	Grants permission to retrieve the latest device position	Read	<a href="#">tracker*</a>	<a href="#">geo:Devices</a>	
<a href="#">GetDevicePositionHistory</a>	Grants permission to retrieve the device position history	Read	<a href="#">tracker*</a>	<a href="#">geo:Devices</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGeofence</a>	Grants permission to retrieve the geofence details from a geofence-collection	Read	<a href="#">geofence-collection*</a>		
				<a href="#">geo:GeofenceIds</a>	
<a href="#">GetMapGlyphs</a>	Grants permission to retrieve the glyph file for a map resource	Read	<a href="#">map*</a>		
<a href="#">GetMapSprites</a>	Grants permission to retrieve the sprite file for a map resource	Read	<a href="#">map*</a>		
<a href="#">GetMapStyleDescriptor</a>	Grants permission to retrieve the map style descriptor from a map resource	Read	<a href="#">map*</a>		
<a href="#">GetMapTile</a>	Grants permission to retrieve the map tile from the map resource	Read	<a href="#">map*</a>		
<a href="#">GetPlace</a>	Grants permission to find a place by its unique ID	Read	<a href="#">place-index*</a>		
<a href="#">ListDevicePositions</a>	Grants permission to retrieve a list of devices and their latest positions from the given tracker resource	Read	<a href="#">tracker*</a>		
<a href="#">ListGeofenceCollections</a>	Grants permission to lists geofence-collections	List	<a href="#">geofence-collection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGeofences</a>	Grants permission to list geofences stored in a given geofence collection	Read	<a href="#">geofence-collection*</a>		
<a href="#">ListKeys</a>	Grants permission to list API key resources	List	<a href="#">api-key*</a>		
<a href="#">ListMaps</a>	Grants permission to list map resources	List	<a href="#">map*</a>		
<a href="#">ListPlaceIndexes</a>	Grants permission to return a list of place index resources	List	<a href="#">place-index*</a>		
<a href="#">ListRouteCalculators</a>	Grants permission to return a list of route calculator resources	List	<a href="#">route-calculator*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags (metadata) which you have assigned to the resource	Read	<a href="#">api-key</a>		
			<a href="#">geofence-collection</a>		
			<a href="#">map</a>		
			<a href="#">place-index</a>		
			<a href="#">route-calculator</a>		
			<a href="#">tracker</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrackerConsumers</a>	Grants permission to retrieve a list of geofence collections currently associated to the given tracker resource	Read	<a href="#">tracker*</a>		
<a href="#">ListTrackers</a>	Grants permission to return a list of tracker resources	List	<a href="#">tracker*</a>		
<a href="#">PutGeofence</a>	Grants permission to add a new geofence or update an existing geofence to a given geofence-collection	Write	<a href="#">geofence-collection*</a>	<a href="#">geo:Geofencelds</a>	
<a href="#">SearchPlaceIndexForPosition</a>	Grants permission to reverse geocodes a given coordinate	Read	<a href="#">place-index*</a>		
<a href="#">SearchPlaceIndexForSuggestions</a>	Grants permission to generate suggestions for addresses and points of interest based on partial or misspelled free-form text	Read	<a href="#">place-index*</a>		
<a href="#">SearchPlaceIndexForText</a>	Grants permission to geocode free-form text, such as an address, name, city or region	Read	<a href="#">place-index*</a>		
<a href="#">TagResource</a>	Grants permission to add to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource	Tagging	<a href="#">api-key</a> <a href="#">geofence-collection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">map</a>		
			<a href="#">place-index</a>		
			<a href="#">route-calculator</a>		
			<a href="#">tracker</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the given tags (metadata) from the resource	Tagging	<a href="#">api-key</a>		
			<a href="#">geofence-collection</a>		
			<a href="#">map</a>		
			<a href="#">place-index</a>		
			<a href="#">route-calculator</a>		
			<a href="#">tracker</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateGeofenceCollection</a>	Grants permission to update a geofence collection	Write	<a href="#">geofence-collection*</a>		
<a href="#">UpdateKey</a>	Grants permission to update an API key resource	Write	<a href="#">api-key*</a>		
<a href="#">UpdateMap</a>	Grants permission to update a map resource	Write	<a href="#">map*</a>		
<a href="#">UpdatePlaceIndex</a>	Grants permission to update a place index resource	Write	<a href="#">place-index*</a>		
<a href="#">UpdateRouteCalculator</a>	Grants permission to update a route calculator resource	Write	<a href="#">route-calculator*</a>		
<a href="#">UpdateTracker</a>	Grants permission to update a tracker resource	Write	<a href="#">tracker*</a>		
<a href="#">VerifyDevicePosition</a>	Grants permission to verify a device position	Read	<a href="#">tracker*</a>	<a href="#">geo:Devices</a>	

## Resource types defined by Amazon Location

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you



can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">api-key</a>	arn:\${Partition}:geo:\${Region}:\${Account}:api-key/\${KeyName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">geofence-collection</a>	arn:\${Partition}:geo:\${Region}:\${Account}:geofence-collection/\${GeofenceCollectionName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">geo:GeofenceIds</a>
<a href="#">map</a>	arn:\${Partition}:geo:\${Region}:\${Account}:map/\${MapName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">place-index</a>	arn:\${Partition}:geo:\${Region}:\${Account}:place-index/\${IndexName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">route-calculator</a>	arn:\${Partition}:geo:\${Region}:\${Account}:route-calculator/\${CalculatorName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tracker</a>	arn:\${Partition}:geo:\${Region}:\${Account}:tracker/\${TrackerName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">geo:DeviceIds</a>

## Condition keys for Amazon Location

Amazon Location defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString
<a href="#">geo:DeviceIds</a>	Filters access by the presence of device ids in the request	ArrayOfString
<a href="#">geo:GeofenceIds</a>	Filters access by the presence of geofence ids in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Location Service Maps

Amazon Location Service Maps (service prefix: geo-maps) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Location Service Maps](#)
- [Resource types defined by Amazon Location Service Maps](#)
- [Condition keys for Amazon Location Service Maps](#)

## Actions defined by Amazon Location Service Maps

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetStaticMap</a>	Grants permission to retrieve the static map	Read	<a href="#">provider*</a>		
<a href="#">GetTile</a>	Grants permission to retrieve the map tile	Read	<a href="#">provider*</a>		

## Resource types defined by Amazon Location Service Maps

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">provider</a>	arn:\${Partition}:geo-maps:\${Region}::provider/default	

## Condition keys for Amazon Location Service Maps

Geo Maps has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

# Actions, resources, and condition keys for Amazon Location Service Places

Amazon Location Service Places (service prefix: `geo-places`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Location Service Places](#)
- [Resource types defined by Amazon Location Service Places](#)
- [Condition keys for Amazon Location Service Places](#)

## Actions defined by Amazon Location Service Places

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Autocomplete</a>	Grants permission to autocomplete text input with potential places and addresses as the user types	Read	<a href="#">provider*</a>		
<a href="#">Geocode</a>	Grants permission to geocode a textual address or place into geographic coordinates	Read	<a href="#">provider*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPlace</a>	Grants permission to query a place by its unique place ID	Read	<a href="#">provider*</a>		
<a href="#">ReverseGeocode</a>	Grants permission to convert geographic coordinates into a human-readable address or place	Read	<a href="#">provider*</a>		
<a href="#">SearchNearby</a>	Grants permission to retrieve places near a position which match to a set of user defined restrictions such as category or food type offered by the place	Read	<a href="#">provider*</a>		
<a href="#">SearchText</a>	Grants permission to query for places using a single free-form text input	Read	<a href="#">provider*</a>		
<a href="#">Suggest</a>	Grants permission to suggest potential places based on the user's input	Read	<a href="#">provider*</a>		

## Resource types defined by Amazon Location Service Places

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">provider</a>	arn:\${Partition}:geo-places:\${Region}::provider/default	

## Condition keys for Amazon Location Service Places

Geo Places has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Location Service Routes

Amazon Location Service Routes (service prefix: `geo-routes`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Location Service Routes](#)
- [Resource types defined by Amazon Location Service Routes](#)
- [Condition keys for Amazon Location Service Routes](#)

## Actions defined by Amazon Location Service Routes

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.



However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Calculate Isolines</a>	Grants permission to determine destinations or service areas reachable within a specified time	Read	<a href="#">provider*</a>		
<a href="#">Calculate RouteMatrix</a>	Grants permission to calculate routing matrix which providing travel time and distances between sets of origins and destinations	Read	<a href="#">provider*</a>		
<a href="#">Calculate Routes</a>	Grants permission to calculate routes between two or more locations	Read	<a href="#">provider*</a>		
<a href="#">OptimizeWaypoints</a>	Grants permission to calculate the most efficient sequence for visiting multiple waypoints or locations along a route	Read	<a href="#">provider*</a>		
<a href="#">SnapToRoads</a>	Grants permission to enhance the accuracy of geographic positioning by aligning GPS coordinates to the nearest road segments on a digital map	Read	<a href="#">provider*</a>		

## Resource types defined by Amazon Location Service Routes

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">provider</a>	arn:\${Partition}:geo-routes:\${Region}::provider/default	

## Condition keys for Amazon Location Service Routes

Geo Routes has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Lookout for Equipment

Amazon Lookout for Equipment (service prefix: lookoutequipment) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Lookout for Equipment](#)
- [Resource types defined by Amazon Lookout for Equipment](#)
- [Condition keys for Amazon Lookout for Equipment](#)

## Actions defined by Amazon Lookout for Equipment

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataset</a>	Grants permission to create a dataset	Write	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateInferenceScheduler</a>	Grants permission to create an inference scheduler for a trained model	Write	<a href="#">inference-scheduler*</a> <a href="#">model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLabel</a>	Grants permission to create a label	Write	<a href="#">label-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateLabelGroup</a>	Grants permission to create a label group	Write	<a href="#">label-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateModel</a>	Grants permission to create a model that is trained on a dataset	Write	<a href="#">dataset*</a> <a href="#">model*</a> <a href="#">label-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRetrainingScheduler</a>	Grants permission to create a retraining scheduler for a trained model	Write	<a href="#">model*</a>		
<a href="#">DeleteDataset</a>	Grants permission to delete a dataset	Write	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInferenceScheduler</a>	Grants permission to delete an inference scheduler	Write	<a href="#">inference-scheduler*</a>		
<a href="#">DeleteLabel</a>	Grants permission to delete a label	Write	<a href="#">label-group*</a>		
<a href="#">DeleteLabelGroup</a>	Grants permission to delete a label group	Write	<a href="#">label-group*</a>		
<a href="#">DeleteModel</a>	Grants permission to delete a model	Write	<a href="#">model*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy	Write	<a href="#">dataset</a> <a href="#">model</a> <a href="#">model-version</a>		
<a href="#">DeleteRetrainingScheduler</a>	Grants permission to delete a retraining scheduler of a trained model	Write	<a href="#">model*</a>		
<a href="#">DescribeDataIngestionJob</a>	Grants permission to describe a data ingestion job	Read			
<a href="#">DescribeDataset</a>	Grants permission to describe a dataset	Read	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInferenceScheduler</a>	Grants permission to describe an inference scheduler	Read	<a href="#">inference-scheduler*</a>		
<a href="#">DescribeLabelGroup</a>	Grants permission to describe a label group	Read	<a href="#">label-group*</a>		
<a href="#">DescribeModel</a>	Grants permission to describe a model	Read	<a href="#">model*</a>		
<a href="#">DescribeModelVersion</a>	Grants permission to describe a model version	Read	<a href="#">model-version*</a>		
<a href="#">DescribeResourcePolicy</a>	Grants permission to describe a resource policy	Read	<a href="#">dataset</a> <a href="#">model</a> <a href="#">model-version</a>		
<a href="#">DescribeRetrainingScheduler</a>	Grants permission to describe a retraining scheduler of a trained model	Read	<a href="#">model*</a>		
<a href="#">DescribeLabel</a>	Grants permission to describe a label	Read	<a href="#">label-group*</a>		
<a href="#">ImportDataset</a>	Grants permission to import a dataset	Write	<a href="#">dataset*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ImportModelVersion</a>	Grants permission to import a model version	Write	<a href="#">dataset*</a> <a href="#">model*</a> <a href="#">label-group</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">lookoutequipment:ImportingData</a>	
<a href="#">ListDataIngestionJobs</a>	Grants permission to list the data ingestion jobs in your account or for a particular dataset	List	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDatasets</a>	Grants permission to list the datasets in your account	List			
<a href="#">ListInferenceEvents</a>	Grants permission to list the inference events for an inference scheduler	Read	<a href="#">inference</a> = <a href="#">schedule</a> <u>r*</u>		
<a href="#">ListInferenceExecutions</a>	Grants permission to list the inference executions for an inference scheduler	Read	<a href="#">inference</a> = <a href="#">schedule</a> <u>r*</u>		
<a href="#">ListInferenceSchedulers</a>	Grants permission to list the inference schedulers in your account	List			
<a href="#">ListLabelGroups</a>	Grants permission to list the label groups in your account	List	<a href="#">label-group</a> <u>up*</u>		
<a href="#">ListLabels</a>	Grants permission to list the labels in your account	List	<a href="#">label-group</a> <u>up*</u>		
<a href="#">ListModelVersions</a>	Grants permission to list the model versions in your account	List	<a href="#">model</a> *		
<a href="#">ListModels</a>	Grants permission to list the models in your account	List			
<a href="#">ListRetrainingSchedulers</a>	Grants permission to list the retraining schedulers in your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSensorStatistics</a>	Grants permission to list the sensor statistics for a particular dataset or an ingestion job	List	<a href="#">dataset*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">dataset</a> <a href="#">inference</a> <a href="#">schedule</a> <a href="#">label-group</a> <a href="#">model</a> <a href="#">model-version</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to put a resource policy	Write	<a href="#">dataset</a> <a href="#">model</a> <a href="#">model-version</a>		
<a href="#">StartDataIngestionJob</a>	Grants permission to start a data ingestion job for a dataset	Write	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartInferenceScheduler</a>	Grants permission to start an inference scheduler	Write	<a href="#">inference</a> = <a href="#">schedule</a> r*		
<a href="#">StartRetrainingScheduler</a>	Grants permission to start a retraining scheduler of a trained model	Write	<a href="#">model*</a>		
<a href="#">StopInferenceScheduler</a>	Grants permission to stop an inference scheduler	Write	<a href="#">inference</a> = <a href="#">schedule</a> r*		
<a href="#">StopRetrainingScheduler</a>	Grants permission to stop a retraining scheduler of a trained model	Write	<a href="#">model*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">dataset</a>		
			<a href="#">inference</a> = <a href="#">schedule</a> r		
			<a href="#">label-group</a>		
			<a href="#">model</a>		
			<a href="#">model-version</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">dataset</a>  <a href="#">inference</a> <a href="#">=</a> <a href="#">schedule</a> <a href="#">r</a>  <a href="#">label-group</a>  <a href="#">model</a>  <a href="#">model-version</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateActiveModelVersion</a>	Grants permission to set the active model version for a given machine learning model	Write	<a href="#">model*</a>  <a href="#">model-version*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateInferenceScheduler</a>	Grants permission to update an inference scheduler	Write	<a href="#">inference-scheduler*</a>		
<a href="#">UpdateLabelGroup</a>	Grants permission to update a label group	Write	<a href="#">label-group*</a>		
<a href="#">UpdateModel</a>	Grants permission to update a trained model	Write	<a href="#">model*</a>		
<a href="#">UpdateRetrainingScheduler</a>	Grants permission to update a retraining scheduler of a trained model	Write	<a href="#">model*</a>		

## Resource types defined by Amazon Lookout for Equipment

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">dataset</a>	arn:\${Partition}:lookoutequipment:\${Region}:\${Account}:dataset/\${DatasetName}/\${DatasetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">model</a>	arn:\${Partition}:lookoutequipment:\${Region}:\${Account}:model/\${ModelName}/\${ModelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">model-version</a>	arn:\${Partition}:lookoutequipment:\${Region}:\${Account}:model/\${ModelName}/\${ModelId}/model-version/\${ModelVersionNumber}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">inference-scheduler</a>	arn:\${Partition}:lookoutequipment:\${Region}:\${Account}:inference-scheduler/\${InferenceSchedulerName}/\${InferenceSchedulerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">label-group</a>	arn:\${Partition}:lookoutequipment:\${Region}:\${Account}:label-group/\${LabelGroupName}/\${LabelGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Lookout for Equipment

Amazon Lookout for Equipment defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">lookouteq uipment:! sImportingData</a>	Filters access by the import strategy of underlying data	Bool

## Actions, resources, and condition keys for Amazon Lookout for Metrics

Amazon Lookout for Metrics (service prefix: `lookoutmetrics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Lookout for Metrics](#)
- [Resource types defined by Amazon Lookout for Metrics](#)
- [Condition keys for Amazon Lookout for Metrics](#)

## Actions defined by Amazon Lookout for Metrics

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateAnomalyDetector</a>	Grants permission to activate an anomaly detector	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">BackTestAnomalyDetector</a>	Grants permission to run a backtest with an anomaly detector	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">CreateAlert</a>	Grants permission to create an alert for an anomaly detector	Write	<a href="#">Alert*</a> <a href="#">AnomalyDetector*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAnomalyDetector</a>	Grants permission to create an anomaly detector	Write	<a href="#">AnomalyDetector*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMetricSet</a>	Grants permission to create a dataset	Write	<a href="#">AnomalyDetector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">MetricSet</a> * -		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeactivateAnomalyDetector</a>	Grants permission to deactivate an anomaly detector	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">DeleteAlert</a>	Grants permission to delete an alert	Write	<a href="#">Alert*</a>		
<a href="#">DeleteAnomalyDetector</a>	Grants permission to delete an anomaly detector	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">DescribeAlert</a>	Grants permission to get details about an alert	Read	<a href="#">Alert*</a>		
<a href="#">DescribeAnomalyDetectionExecutions</a>	Grants permission to get information about an anomaly detection job	Read	<a href="#">AnomalyDetector*</a>		
<a href="#">DescribeAnomalyDetector</a>	Grants permission to get details about an anomaly detector	Read	<a href="#">AnomalyDetector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMetricSet</a>	Grants permission to get details about a dataset	Read	<a href="#">MetricSet*</a>		
<a href="#">DetectMetricSetConfig</a>	Grants permission to detect metric set config from data source	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">GetAnomalyGroup</a>	Grants permission to get details about a group of affected metrics	Read	<a href="#">AnomalyDetector*</a>		
<a href="#">GetDataQualityMetrics</a>	Grants permission to get data quality metrics for an anomaly detector	Read	<a href="#">AnomalyDetector*</a>		
<a href="#">GetFeedback</a>	Grants permission to get feedback on affected metrics for an anomaly group	Read	<a href="#">AnomalyDetector*</a>		
<a href="#">GetSampleData</a>	Grants permission to get a selection of sample records from an Amazon S3 data source	Read			
<a href="#">ListAlerts</a>	Grants permission to get a list of alerts for a detector	List	<a href="#">AnomalyDetector</a>		
<a href="#">ListAnomalyDetectors</a>	Grants permission to get a list of anomaly detectors	List			
<a href="#">ListAnomalyGroupRelatedMetrics</a>	Grants permission to get a list of related measures in an anomaly group	List	<a href="#">AnomalyDetector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAnomalyGroupSummaries</a>	Grants permission to get a list of anomaly groups	List	<a href="#">AnomalyDetector*</a>		
<a href="#">ListAnomalyGroupTimeSeries</a>	Grants permission to get a list of affected metrics for a measure in an anomaly group	List	<a href="#">AnomalyDetector*</a>		
<a href="#">ListMetricSets</a>	Grants permission to get a list of datasets	List	<a href="#">AnomalyDetector</a>		
<a href="#">ListTagsForResource</a>	Grants permission to get a list of tags for a detector, dataset, or alert	Read	<a href="#">Alert</a> <a href="#">AnomalyDetector</a> <a href="#">MetricSet</a>		
<a href="#">PutFeedback</a>	Grants permission to add feedback for an affected metric in an anomaly group	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a detector, dataset, or alert	Tagging	<a href="#">Alert</a> <a href="#">AnomalyDetector</a> <a href="#">MetricSet</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a detector, dataset, or alert	Tagging	<a href="#">Alert</a> <a href="#">AnomalyDetector</a> <a href="#">MetricSet</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAlert</a>	Grants permission to update an alert for an anomaly detector	Write	<a href="#">Alert*</a>		
<a href="#">UpdateAnomalyDetector</a>	Grants permission to update an anomaly detector	Write	<a href="#">AnomalyDetector*</a>		
<a href="#">UpdateMetricSet</a>	Grants permission to update a dataset	Write	<a href="#">MetricSet</a> * -		

## Resource types defined by Amazon Lookout for Metrics

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AnomalyDetector</a>	arn:\${Partition}:lookoutmetrics:\${Region}:\${Account}:AnomalyDetector:\${AnomalyDetectorName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">MetricSet</a>	arn:\${Partition}:lookoutmetrics:\${Region}:\${Account}:MetricSet/\${AnomalyDetectorName}/\${MetricSetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Alert</a>	arn:\${Partition}:lookoutmetrics:\${Region}:\${Account}:Alert:\${AlertName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Lookout for Metrics

Amazon Lookout for Metrics defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Lookout for Vision

Amazon Lookout for Vision (service prefix: `lookoutvision`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Lookout for Vision](#)
- [Resource types defined by Amazon Lookout for Vision](#)
- [Condition keys for Amazon Lookout for Vision](#)

## Actions defined by Amazon Lookout for Vision

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of



access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataset</a>	Grants permission to create a dataset manifest	Write			
<a href="#">CreateModel</a>	Grants permission to create a new anomaly detection model	Write	<a href="#">model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProject</a>	Grants permission to create a new project	Write	<a href="#">project*</a>		
<a href="#">DeleteDataset</a>	Grants permission to delete a dataset	Write			
<a href="#">DeleteModel</a>	Grants permission to delete a model and all associated assets	Write	<a href="#">model*</a>		
<a href="#">DeleteProject</a>	Grants permission to permanently remove a project	Write	<a href="#">project*</a>		
<a href="#">DescribeDataset</a>	Grants permission to show detailed information about dataset manifest	Read			
<a href="#">DescribeModel</a>	Grants permission to show detailed information about a model	Read	<a href="#">model*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeModelPackagingJob</a>	Grants permission to show detailed information about a model packaging job	Read			
<a href="#">DescribeProject</a>	Grants permission to show detailed information about a project	Read	<a href="#">project*</a>		
<a href="#">DescribeTrialDetection</a> [permission only]	Grants permission to provides state information about a running anomaly detection job	Read			
<a href="#">DetectAnomalies</a>	Grants permission to invoke detection of anomalies	Write	<a href="#">model*</a>		
<a href="#">ListDatasetEntries</a>	Grants permission to list the contents of dataset manifest	Read			
<a href="#">ListModelPackagingJobs</a>	Grants permission to list all model packaging jobs associated with a project	List			
<a href="#">ListModels</a>	Grants permission to list all models associated with a project	List			
<a href="#">ListProjects</a>	Grants permission to list all projects	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">model</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrialDetections</a> [permission only]	Grants permission to list all anomaly detection jobs	List			
<a href="#">StartModel</a>	Grants permission to start anomaly detection model	Write	<a href="#">model*</a>		
<a href="#">StartModelPackagingJob</a>	Grants permission to start a model packaging job	Write	<a href="#">model*</a>		
<a href="#">StartTrialDetection</a> [permission only]	Grants permission to start bulk detection of anomalies for a set of images stored in an S3 bucket	Write			
<a href="#">StopModel</a>	Grants permission to stop anomaly detection model	Write	<a href="#">model*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">model</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the tag with the given key from a resource	Tagging	<a href="#">model</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDatasetEntries</a>	Grants permission to update a training or test dataset manifest	Write			

## Resource types defined by Amazon Lookout for Vision

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">model</a>	arn:\${Partition}:lookoutvision:\${Region}:\${Account}:model/\${ProjectName}/\${ModelVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">project</a>	arn:\${Partition}:lookoutvision:\${Region}:\${Account}:project/\${ProjectName}	

## Condition keys for Amazon Lookout for Vision

Amazon Lookout for Vision defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Machine Learning

Amazon Machine Learning (service prefix: `machinelearning`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Machine Learning](#)
- [Resource types defined by Amazon Machine Learning](#)
- [Condition keys for Amazon Machine Learning](#)

## Actions defined by Amazon Machine Learning

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTags</a>	Adds one or more tags to an object, up to a limit of 10. Each tag consists of a key and an optional value	Tagging	<a href="#">batchprediction</a>		
			<a href="#">datasource</a>		
			<a href="#">evaluation</a>		
			<a href="#">mlmodel</a>		
<a href="#">CreateBatchPrediction</a>	Generates predictions for a group of observations	Write	<a href="#">batchprediction*</a>		
			<a href="#">datasource*</a>		
			<a href="#">mlmodel*</a>		
<a href="#">CreateDataSourceFromRDS</a>	Creates a DataSource object from an Amazon RDS	Write	<a href="#">datasource*</a>		
<a href="#">CreateDataSourceFromRedshift</a>	Creates a DataSource from a database hosted on an Amazon Redshift cluster	Write	<a href="#">datasource*</a>		
<a href="#">CreateDataSourceFromS3</a>	Creates a DataSource object from S3	Write	<a href="#">datasource*</a>		
<a href="#">CreateEvaluation</a>	Creates a new Evaluation of an MLModel	Write	<a href="#">datasource*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">evaluation*</a>		
			<a href="#">mlmodel*</a>		
<a href="#">CreateMLModel</a>	Creates a new MLModel	Write	<a href="#">datasource*</a>		
			<a href="#">mlmodel*</a>		
<a href="#">CreateRealtimeEndpoint</a>	Creates a real-time endpoint for the MLModel	Write	<a href="#">mlmodel*</a>		
<a href="#">DeleteBatchPrediction</a>	Assigns the DELETED status to a BatchPrediction, rendering it unusable	Write	<a href="#">batchprediction*</a>		
<a href="#">DeleteDataSource</a>	Assigns the DELETED status to a DataSource, rendering it unusable	Write	<a href="#">datasource*</a>		
<a href="#">DeleteEvaluation</a>	Assigns the DELETED status to an Evaluation, rendering it unusable	Write	<a href="#">evaluation*</a>		
<a href="#">DeleteMLModel</a>	Assigns the DELETED status to an MLModel, rendering it unusable	Write	<a href="#">mlmodel*</a>		
<a href="#">DeleteRealtimeEndpoint</a>	Deletes a real time endpoint of an MLModel	Write	<a href="#">mlmodel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTags</a>	Deletes the specified tags associated with an ML object. After this operation is complete, you can't recover deleted tags	Tagging	<a href="#">batchprediction</a> <a href="#">datasource</a> <a href="#">evaluation</a> <a href="#">mlmodel</a>		
<a href="#">DescribeBatchPredictions</a>	Returns a list of BatchPrediction operations that match the search criteria in the request	List			
<a href="#">DescribeDataSources</a>	Returns a list of DataSource that match the search criteria in the request	List			
<a href="#">DescribeEvaluations</a>	Returns a list of DescribeEvaluations that match the search criteria in the request	List			
<a href="#">DescribeMLModels</a>	Returns a list of MLModel that match the search criteria in the request	List			
<a href="#">DescribeTags</a>	Describes one or more of the tags for your Amazon ML object	List	<a href="#">batchprediction</a> <a href="#">datasource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">evaluation</a>		
			<a href="#">mlmodel</a>		
<a href="#">GetBatchPrediction</a>	Returns a BatchPrediction that includes detailed metadata, status, and data file information	Read	<a href="#">batchprediction*</a>		
<a href="#">GetDataSource</a>	Returns a DataSource that includes metadata and data file information, as well as the current status of the DataSource	Read	<a href="#">datasource*</a>		
<a href="#">GetEvaluation</a>	Returns an Evaluation that includes metadata as well as the current status of the Evaluation	Read	<a href="#">datasource*</a>		
<a href="#">GetMLModel</a>	Returns an MLModel that includes detailed metadata, and data source information as well as the current status of the MLModel	Read	<a href="#">mlmodel*</a>		
<a href="#">Predict</a>	Generates a prediction for the observation using the specified ML Model	Write	<a href="#">mlmodel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBatchPrediction</a>	Updates the BatchPredictionName of a BatchPrediction	Write	<a href="#">batchprediction*</a>		
<a href="#">UpdateDataSource</a>	Updates the DataSourceName of a DataSource	Write	<a href="#">datasource*</a>		
<a href="#">UpdateEvaluation</a>	Updates the EvaluationName of an Evaluation	Write	<a href="#">evaluation*</a>		
<a href="#">UpdateMLModel</a>	Updates the MLModelName and the ScoreThreshold of an MLModel	Write	<a href="#">mlmodel*</a>		

## Resource types defined by Amazon Machine Learning

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">batchprediction</a>	arn:\${Partition}:machinelearning:\${Region}:\${Account}:batchprediction/\${BatchPredictionId}	
<a href="#">datasource</a>	arn:\${Partition}:machinelearning:\${Region}:\${Account}:datasource/\${DataSourceId}	

Resource types	ARN	Condition keys
<a href="#">evaluation</a>	arn:\${Partition}:machinelearning:\${Region}:\${Account}:evaluation/\${EvaluationId}	
<a href="#">mlmodel</a>	arn:\${Partition}:machinelearning:\${Region}:\${Account}:mlmodel/\${MLModelId}	

## Condition keys for Amazon Machine Learning

Machine Learning has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Macie

Amazon Macie (service prefix: `macie2`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Macie](#)
- [Resource types defined by Amazon Macie](#)
- [Condition keys for Amazon Macie](#)

## Actions defined by Amazon Macie

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

**Note**

The `DisassociateFromMasterAccount` and `GetMasterAccount` actions have been deprecated. We recommend that you specify the `DisassociateFromAdministratorAccount` and `GetAdministratorAccount` actions respectively instead.

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptInvitation</a>	Grants permission to accept an Amazon Macie membership invitation	Write			
<a href="#">BatchGetCustomDataIdentifiers</a>	Grants permission to retrieve information about one or more custom data identifiers	Read	<a href="#">CustomDataIdentifier*</a>		
<a href="#">BatchUpdateAutomatedDiscoveryAccounts</a>	Grants permission to an Amazon Macie administrator to change the status of automated sensitive data discovery for one or more accounts in their organization	Write			
<a href="#">CreateAllowList</a>	Grants permission to create and define the settings for an allow list	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateClassificationJob</a>	Grants permission to create and define the settings for a sensitive data discovery job	Write	<a href="#">ClassificationJob*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCustomDataIdentifier</a>	Grants permission to create and define the settings for a custom data identifier	Write	<a href="#">CustomDataIdentifier*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFindingsFilter</a>	Grants permission to create and define the settings for a findings filter	Write	<a href="#">FindingsFilter*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInvitations</a>	Grants permission to send an Amazon Macie membership invitation	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMember</a>	Grants permission to associate an account with an Amazon Macie administrator account	Write	<a href="#">Member*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSampleFindings</a>	Grants permission to create sample findings	Write			
<a href="#">DeclineInvitations</a>	Grants permission to decline Amazon Macie membership invitations	Write			
<a href="#">DeleteAllowList</a>	Grants permission to delete an allow list	Write	<a href="#">AllowList*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCustomDataIdentifier</a>	Grants permission to delete a custom data identifier	Write	<a href="#">CustomDataIdentifier*</a>		
<a href="#">DeleteFindingsFilter</a>	Grants permission to delete a findings filter	Write	<a href="#">FindingsFilter*</a>		
<a href="#">DeleteInvitations</a>	Grants permission to delete Amazon Macie membership invitations	Write			
<a href="#">DeleteMember</a>	Grants permission to delete the association between an Amazon Macie administrator account and an account	Write	<a href="#">Member*</a>		
<a href="#">DescribeBuckets</a>	Grants permission to retrieve statistical data and other information about S3 buckets that Amazon Macie monitors and analyzes	Read			
<a href="#">DescribeClassificationJob</a>	Grants permission to retrieve information about the status and settings for a sensitive data discovery job	Read	<a href="#">ClassificationJob*</a>		
<a href="#">DescribeOrganizationConfiguration</a>	Grants permission to retrieve information about the Amazon Macie configuration settings for an AWS organization	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableMacie</a>	Grants permission to disable an Amazon Macie account, which also deletes Macie resources for the account	Write			
<a href="#">DisableOrganizationAdminAccount</a>	Grants permission to disable an account as the delegated Amazon Macie administrator account for an AWS organization	Write			
<a href="#">DisassociateFromAdministratorAccount</a>	Grants permission to an Amazon Macie member account to disassociate from its Macie administrator account	Write			
<a href="#">DisassociateFromMasterAccount</a>	Grants permission to an Amazon Macie member account to disassociate from its Macie administrator account	Write			
<a href="#">DisassociateMember</a>	Grants permission to an Amazon Macie administrator account to disassociate from a Macie member account	Write	<a href="#">Member*</a>		
<a href="#">EnableMacie</a>	Grants permission to enable and specify the configuration settings for a new Amazon Macie account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableOrganizationAdminAccount</a>	Grants permission to enable an account as the delegated Amazon Macie administrator account for an AWS organization	Write			
<a href="#">GetAdministratorAccount</a>	Grants permission to retrieve information about the Amazon Macie administrator account for an account	Read			
<a href="#">GetAllowList</a>	Grants permission to retrieve the settings and status of an allow list	Read	<a href="#">AllowList</a> *		
<a href="#">GetAutomatedDiscoveryConfiguration</a>	Grants permission to retrieve the configuration settings and status of automated sensitive data discovery for an Amazon Macie administrator account, organization, or standalone account	Read			
<a href="#">GetBucketStatistics</a>	Grants permission to retrieve aggregated statistical data for all the S3 buckets that Amazon Macie monitors and analyzes	Read			
<a href="#">GetClassificationExportConfiguration</a>	Grants permission to retrieve the settings for exporting sensitive data discovery results	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetClassificationScope</a>	Grants permission to retrieve the classification scope settings for an account	Read			
<a href="#">GetCustomDataIdentifier</a>	Grants permission to retrieve information about the settings for a custom data identifier	Read	<a href="#">CustomDataIdentifier*</a>		
<a href="#">GetFindingsStatistics</a>	Grants permission to retrieve aggregated statistical data about findings	Read			
<a href="#">GetFindings</a>	Grants permission to retrieve the details of one or more findings	Read			
<a href="#">GetFindingsFilter</a>	Grants permission to retrieve information about the settings for a findings filter	Read	<a href="#">FindingsFilter*</a>		
<a href="#">GetFindingsPublicationConfiguration</a>	Grants permission to retrieve the configuration settings for publishing findings to AWS Security Hub	Read			
<a href="#">GetInvitationsCount</a>	Grants permission to retrieve the count of Amazon Macie membership invitations that were received by an account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMacieSession</a>	Grants permission to retrieve information about the status and configuration settings for an Amazon Macie account	Read			
<a href="#">GetMasterAccount</a>	Grants permission to retrieve information about the Amazon Macie administrator account for an account	Read			
<a href="#">GetMember</a>	Grants permission to retrieve information about an account that's associated with an Amazon Macie administrator account	Read	<a href="#">Member*</a>		
<a href="#">GetResourceProfile</a>	Grants permission to retrieve sensitive data discovery statistics and the sensitivity score for an S3 bucket	Read			
<a href="#">GetRevealConfiguration</a>	Grants permission to retrieve the status and configuration settings for retrieving occurrences of sensitive data reported by findings	Read			
<a href="#">GetSensitiveDataOccurrences</a>	Grants permission to retrieve occurrences of sensitive data reported by a finding	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSensitiveDataOccurrencesAvailability</a>	Grants permission to check whether occurrences of sensitive data can be retrieved for a finding	Read			
<a href="#">GetSensitivityInspectionTemplate</a>	Grants permission to retrieve the sensitivity inspection template settings for an account	Read			
<a href="#">GetUsageStatistics</a>	Grants permission to retrieve quotas and aggregated usage data for one or more accounts	Read			
<a href="#">GetUsageTotals</a>	Grants permission to retrieve aggregated usage data for an account	Read			
<a href="#">ListAllowLists</a>	Grants permission to retrieve a subset of information about all the allow lists for an account	List			
<a href="#">ListAutomatedDiscoveryAccounts</a>	Grants permission to retrieve the status of automated sensitive data discovery for an account	List			
<a href="#">ListClassificationJobs</a>	Grants permission to retrieve a subset of information about the status and settings for one or more sensitive data discovery jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListClassificationScopes</a>	Grants permission to retrieve a subset of information about the classification scope for an account	List			
<a href="#">ListCustomDataIdentifiers</a>	Grants permission to retrieve information about all custom data identifiers	List			
<a href="#">ListFindings</a>	Grants permission to retrieve a subset of information about one or more findings	List			
<a href="#">ListFindingsFilters</a>	Grants permission to retrieve information about all findings filters	List			
<a href="#">ListInvitations</a>	Grants permission to retrieve information about all the Amazon Macie membership invitations that were received by an account	List			
<a href="#">ListManagedDataIdentifiers</a>	Grants permission to retrieve information about managed data identifiers	List			
<a href="#">ListMembers</a>	Grants permission to retrieve information about the Amazon Macie member accounts that are associated with a Macie administrator account	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOrganizationAdminAccounts</a>	Grants permission to retrieve information about the delegated Amazon Macie administrator account for an AWS organization	List			
<a href="#">ListResourceProfileArtifacts</a>	Grants permission to retrieve information about objects that Amazon Macie selected from an S3 bucket for automated sensitive data discovery	List			
<a href="#">ListResourceProfileDetections</a>	Grants permission to retrieve information about the types and amount of sensitive data that Amazon Macie found in an S3 bucket	List			
<a href="#">ListSensitivityInspectionTemplates</a>	Grants permission to retrieve a subset of information about the sensitivity inspection template for an account	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve the tags for an Amazon Macie resource	Read	<a href="#">AllowList</a> <a href="#">ClassificationJob</a> <a href="#">CustomDataIdentifier</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">FindingsFilter</a>		
			<a href="#">Member</a>		
<a href="#">PutClassificationExportConfiguration</a>	Grants permission to create or update the settings for storing sensitive data discovery results	Write			
<a href="#">PutFindingsPublicationConfiguration</a>	Grants permission to update the configuration settings for publishing findings to AWS Security Hub	Write			
<a href="#">SearchResources</a>	Grants permission to retrieve statistical data and other information about AWS resources that Amazon Macie monitors and analyzes	Read			
<a href="#">TagResource</a>	Grants permission to add or update the tags for an Amazon Macie resource	Tagging	<a href="#">AllowList</a>		
			<a href="#">ClassificationJob</a>		
			<a href="#">CustomDataIdentifier</a>		
			<a href="#">FindingsFilter</a>		
			<a href="#">Member</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TestCustomDataIdentifier</a>	Grants permission to test a custom data identifier	Write			
<a href="#">UntagResource</a>	Grants permission to remove tags from an Amazon Macie resource	Tagging	<a href="#">AllowList</a>		
			<a href="#">ClassificationJob</a>		
			<a href="#">CustomDataIdentifier</a>		
			<a href="#">FindingsFilter</a>		
			<a href="#">Member</a>		
			<a href="#">aws:TagKeys</a>		
<a href="#">UpdateAllowList</a>	Grants permission to update the settings for an allow list	Write	<a href="#">AllowList*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAutomatedDiscoveryConfiguration</a>	Grants permission to change the status of automated sensitive data discovery for an Amazon Macie administrator account, organization, or standalone account	Write			
<a href="#">UpdateClassificationJob</a>	Grants permission to change the status of a sensitive data discovery job	Write	<a href="#">ClassificationJob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateClassificationScope</a>	Grants permission to update the classification scope settings for an account	Write			
<a href="#">UpdateFindingsFilter</a>	Grants permission to update the settings for a findings filter	Write	<a href="#">FindingsFilter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMacieSession</a>	Grants permission to an Amazon Macie administrator account to suspend or re-enable Macie for a member account	Write			
<a href="#">UpdateMemberSession</a>	Grants permission to an Amazon Macie administrator account to suspend or re-enable a Macie member account	Write			
<a href="#">UpdateOrganizationConfiguration</a>	Grants permission to update Amazon Macie configuration settings for an AWS organization	Write			
<a href="#">UpdateResourceProfile</a>	Grants permission to update the sensitivity score for an S3 bucket	Write			
<a href="#">UpdateResourceProfileDetections</a>	Grants permission to update the sensitivity scoring settings for an S3 bucket	Write			
<a href="#">UpdateRealConfiguration</a>	Grants permission to update the status and configuration settings for retrieving occurrences of sensitive data reported by findings	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSensitivityInspectionTemplate</a>	Grants permission to update the sensitivity inspection template settings for an account	Write			

## Resource types defined by Amazon Macie

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AllowList</a>	arn:\${Partition}:macie2:\${Region}:\${Account}:allow-list/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ClassificationJob</a>	arn:\${Partition}:macie2:\${Region}:\${Account}:classification-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">CustomDataIdentifier</a>	arn:\${Partition}:macie2:\${Region}:\${Account}:custom-data-identifier/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">FindingsFilter</a>	arn:\${Partition}:macie2:\${Region}:\${Account}:findings-filter/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Member</a>	arn:\${Partition}:macie2:\${Region}:\${Account}:member/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Macie

Amazon Macie defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Mainframe Modernization Application Testing

AWS Mainframe Modernization Application Testing (service prefix: `apptest`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Mainframe Modernization Application Testing](#)
- [Resource types defined by AWS Mainframe Modernization Application Testing](#)
- [Condition keys for AWS Mainframe Modernization Application Testing](#)

## Actions defined by AWS Mainframe Modernization Application Testing

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the



permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTestCase</a>	Grants permission to create a test case	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTestConfiguration</a>	Grants permission to create a test configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTestSuite</a>	Grants permission to create a test suite	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteTestCase</a>	Grants permission to delete a test case	Write	<a href="#">TestCase*</a>		
<a href="#">DeleteTestConfiguration</a>	Grants permission to delete a test configuration	Write	<a href="#">TestConfiguration*</a>		
<a href="#">DeleteTestRun</a>	Grants permission to delete a test run	Write	<a href="#">TestRun*</a>		s3:DeleteObject s3:ListBucket
<a href="#">DeleteTestSuite</a>	Grants permission to delete a test suite	Write	<a href="#">TestSuite*</a>		
<a href="#">GetTestCase</a>	Grants permission to get a test case	Read	<a href="#">TestCase*</a>		
<a href="#">GetTestConfiguration</a>	Grants permission to get a test configuration	Read	<a href="#">TestConfiguration*</a>		
<a href="#">GetTestRunStep</a>	Grants permission to get test run step	Read	<a href="#">TestRun*</a>		
<a href="#">GetTestSuite</a>	Grants permission to get a test suite	Read	<a href="#">TestSuite*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTestCases</a>	Grants permission to list test cases	List			
<a href="#">ListTestConfigurations</a>	Grants permission to list test configurations	List			
<a href="#">ListTestRunSteps</a>	Grants permission to list steps for a test run	Read	<a href="#">TestRun*</a>		
<a href="#">ListTestRunTestCases</a>	Grants permission to list test cases for a test run	Read	<a href="#">TestRun*</a>		
<a href="#">ListTestRuns</a>	Grants permission to list test runs	List			
<a href="#">ListTestSuites</a>	Grants permission to list test suites	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTestRun</a>	Grants permission to start a test run	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	cloudformation:CreateStack cloudformation:DeleteStack cloudformation:DescribeStacks dms:DescribeReplicationTasks dms:StartReplicationTask dms:StopReplicationTask ec2:DescribeAvailabilityZones ec2:DescribeVpcEndpointServ

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iceConfigurations  ec2:DescribeVpcEndpointServices  m2:CreateDataSetImportTask  m2:GetApplication  m2:GetApplicationVersion  m2:GetBatchJobExecution  m2:GetDataSetDetails  m2:GetDataSetImportTask  m2:StartApplication

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					m2:StartBatchJob m2:StopApplication s3:CreateBucket s3>DeleteObject s3:GetObject s3:ListBucket s3:PutObject
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">TestCase</a> <a href="#">TestConfiguration</a> <a href="#">TestRun</a> <a href="#">TestSuite</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">TestCase</a>		
			<a href="#">TestConfiguration</a>		
			<a href="#">TestRun</a>		
			<a href="#">TestSuite</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateTestCase</a>	Grants permission to update a test case	Write	<a href="#">TestCase*</a>		
<a href="#">UpdateTestConfiguration</a>	Grants permission to update a test configuration	Write	<a href="#">TestConfiguration*</a>		
<a href="#">UpdateTestSuite</a>	Grants permission to update a test suite	Write	<a href="#">TestSuite*</a>		

## Resource types defined by AWS Mainframe Modernization Application Testing

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">TestCase</a>	arn:\${Partition}:apptest:\${Region}:\${Account}:testcase/\${TestCaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TestConfiguration</a>	arn:\${Partition}:apptest:\${Region}:\${Account}:testconfiguration/\${TestConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TestRun</a>	arn:\${Partition}:apptest:\${Region}:\${Account}:testrun/\${TestRunId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TestSuite</a>	arn:\${Partition}:apptest:\${Region}:\${Account}:testsuite/\${TestSuiteId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Mainframe Modernization Application Testing

AWS Mainframe Modernization Application Testing defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String



Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Mainframe Modernization Service

AWS Mainframe Modernization Service (service prefix: m2) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Mainframe Modernization Service](#)
- [Resource types defined by AWS Mainframe Modernization Service](#)
- [Condition keys for AWS Mainframe Modernization Service](#)

## Actions defined by AWS Mainframe Modernization Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelBatchJobExecution</a>	Grants permission to cancel the execution of a batch job	Write	<a href="#">Application*</a>		
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	s3:GetObject s3:ListBucket
<a href="#">CreateDataSetExportTask</a>	Grants permission to create a data set export task	Write	<a href="#">Application*</a>		s3:GetObject
<a href="#">CreateDataSetImportTask</a>	Grants permission to create a data set import task	Write	<a href="#">Application*</a>		s3:GetObject
<a href="#">CreateDeployment</a>	Grants permission to create a deployment	Write	<a href="#">Application*</a>		elasticloadbalancing:AddTags elasticloadbalancing:CreateListener elasticloadbalancing:Create

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Environment</a>		TargetGroup elasticloadbalancing:RegisterTargets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironment</a>	Grants permission to Create an environment	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:DescribeNetworkInterfaces ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcs ec2:ModifyNetworkInterfaceAttribute

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					elasticfilesystem:DescribeMountTargets
					elasticloadbalancing:AddTags
					elasticloadbalancing:CreateLoadBalancer
					fsx:DescribeFileSystems
					iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">Application*</a>		elasticloadbalancing:DeleteListener  elasticloadbalancing:DeleteTargetGroup
<a href="#">DeleteApplicationFromEnvironment</a>	Grants permission to delete an application from a runtime environment	Write	<a href="#">Application*</a>		elasticloadbalancing:DeleteListener  elasticloadbalancing:DeleteTargetGroup
<a href="#">DeleteEnvironment</a>	Grants permission to delete a runtime environment	Write	<a href="#">Environment*</a>		elasticloadbalancing:DeleteLoadBalancer
<a href="#">GetApplication</a>	Grants permission to retrieve an application	Read	<a href="#">Application*</a>		
<a href="#">GetApplicationVersion</a>	Grants permission to retrieve an application version	Read	<a href="#">Application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBatchJobExecution</a>	Grants permission to retrieve a batch job execution	Read	<a href="#">Application*</a>		
<a href="#">GetDataSetDetails</a>	Grants permission to retrieve data set details	Read	<a href="#">Application*</a>		
<a href="#">GetDataSetExportTask</a>	Grants permission to export a data set at the specified S3 location	Read	<a href="#">Application*</a>		
<a href="#">GetDataSetImportTask</a>	Grants permission to retrieve a data set import task	Read	<a href="#">Application*</a>		
<a href="#">GetDeployment</a>	Grants permission to retrieve a deployment	Read	<a href="#">Application*</a>		
<a href="#">GetEnvironment</a>	Grants permission to retrieve a runtime environment	Read	<a href="#">Environment*</a>		
<a href="#">GetSignedBluinsightsUrl</a>	Grants permission to create a signed Bluinsights url	Read			
<a href="#">ListApplicationVersions</a>	Grants permission to list the versions of an application	Read	<a href="#">Application*</a>		
<a href="#">ListApplications</a>	Grants permission to list applications	List			
<a href="#">ListBatchJobDefinitions</a>	Grants permission to list batch job definitions	Read	<a href="#">Application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBatchJobExecutions</a>	Grants permission to list executions for a batch job	Read	<a href="#">Application*</a>		
<a href="#">ListBatchJobRestartPoints</a>	Grants permission to retrieve a batch job execution	Read	<a href="#">Application*</a>		
<a href="#">ListDataSetExportHistory</a>	Grants permission to list data set export history	Read	<a href="#">Application*</a>		
<a href="#">ListDataSetImportHistory</a>	Grants permission to list data set import history	Read	<a href="#">Application*</a>		
<a href="#">ListDataSets</a>	Grants permission to list data sets	Read	<a href="#">Application*</a>		
<a href="#">ListDeployments</a>	Grants permission to list deployments	Read	<a href="#">Application*</a>		
<a href="#">ListEngineVersions</a>	Grants permission to list engine versions	Read			
<a href="#">ListEnvironments</a>	Grants permission to list runtime environments	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			
<a href="#">StartApplication</a>	Grants permission to start an application	Write	<a href="#">Application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartBatchJob</a>	Grants permission to start a batch job	Write	<a href="#">Application*</a>		
<a href="#">StopApplication</a>	Grants permission to stop an application	Write	<a href="#">Application*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">Application</a>		
			<a href="#">Environment</a>		
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">Application</a>		
			<a href="#">Environment</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an application	Write	<a href="#">Application*</a>		s3:GetObject s3:ListBucket

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironment</a>	Grants permission to update a runtime environment	Write	<a href="#">Environment*</a>		

## Resource types defined by AWS Mainframe Modernization Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Application</a>	arn:\${Partition}:m2:\${Region}:\${Account}:app/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Environment</a>	arn:\${Partition}:m2:\${Region}:\${Account}:env/\${EnvironmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Mainframe Modernization Service

AWS Mainframe Modernization Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Managed Blockchain

Amazon Managed Blockchain (service prefix: `managedblockchain`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Managed Blockchain](#)
- [Resource types defined by Amazon Managed Blockchain](#)
- [Condition keys for Amazon Managed Blockchain](#)

## Actions defined by Amazon Managed Blockchain


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccessor</a>	Grants permission to create an Amazon Managed Blockchain accessor	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateMember</a>	Grants permission to create a member of an Amazon Managed Blockchain network	Write	<a href="#">network*</a>		iam:CreateServiceLinkedRole
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateNetwork</a>	Grants permission to create an Amazon Managed Blockchain network	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole
<a href="#">CreateNode</a>	Grants permission to create a node within a member of an Amazon Managed Blockchain network	Write	<a href="#">member</a>		iam:CreateServiceLinkedRole
			<a href="#">network</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateProposal</a>	Grants permission to create a proposal that other blockchain network members can vote on to add or remove a member in an Amazon Managed Blockchain network	Write	<a href="#">network*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteAccessor</a>	Grants permission to delete an Amazon Managed Blockchain accessor	Write	<a href="#">accessor*</a>		
<a href="#">DeleteMember</a>	Grants permission to delete a member and all associated resources from an Amazon Managed Blockchain network	Write	<a href="#">member*</a>		
<a href="#">DeleteNode</a>	Grants permission to delete a node from a member of an Amazon Managed Blockchain network	Write	<a href="#">node*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GET</a> [permission only]	Grants permission to send HTTP GET requests to an Ethereum node	Permissions management			
<a href="#">GetAccessor</a>	Grants permission to return detailed information about an Amazon Managed Blockchain accessor	Read	<a href="#">accessor*</a>		
<a href="#">GetMember</a>	Grants permission to return detailed information about a member of an Amazon Managed Blockchain network	Read	<a href="#">member*</a>		
<a href="#">GetNetwork</a>	Grants permission to return detailed information about an Amazon Managed Blockchain network	Read	<a href="#">network*</a>		
<a href="#">GetNode</a>	Grants permission to return detailed information about a node within a member of an Amazon Managed Blockchain network	Read	<a href="#">node*</a>		
<a href="#">GetProposal</a>	Grants permission to return detailed information about a proposal of an Amazon Managed Blockchain network	Read	<a href="#">proposal*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Invoke</a> [permission only]	Grants permission to create WebSocket connections to an Ethereum node	Permissions management			
<a href="#">InvokeRpcBitcoinMainnet</a>	Grants permission to invoke the Bitcoin Mainnet RPCs	Read			
<a href="#">InvokeRpcBitcoinTestnet</a>	Grants permission to invoke the Bitcoin Testnet RPCs	Read			
<a href="#">InvokeRpcPolygonMainnet</a>	Grants permission to invoke the Polygon Mainnet RPCs	Read			
<a href="#">InvokeRpcPolygonMumbaiTestnet</a>	Grants permission to invoke the Polygon Mumbai Testnet RPCs	Read			
<a href="#">ListAccessors</a>	Grants permission to list the Amazon Managed Blockchain accessors owned by the current AWS account	List			
<a href="#">ListInvitations</a>	Grants permission to list the invitations extended to the active AWS account from any Managed Blockchain network	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMembers</a>	Grants permission to list the members of an Amazon Managed Blockchain network and the properties of their memberships	List	<a href="#">network*</a>		
<a href="#">ListNetworks</a>	Grants permission to list the Amazon Managed Blockchain networks in which the current AWS account participates	List			
<a href="#">ListNodes</a>	Grants permission to list the nodes within a member of an Amazon Managed Blockchain network	List	<a href="#">member</a>		
			<a href="#">network</a>		
<a href="#">ListProposalVotes</a>	Grants permission to list all votes for a proposal, including the value of the vote and the unique identifier of the member that cast the vote for the given Amazon Managed Blockchain network	Read	<a href="#">proposal*</a>		
<a href="#">ListProposals</a>	Grants permission to list proposals for the given Amazon Managed Blockchain network	List	<a href="#">network*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to view tags associated with an Amazon Managed Blockchain resource	Read	<a href="#">accessor</a>		
			<a href="#">invitation</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">member</a>		
			<a href="#">network</a>		
			<a href="#">node</a>		
			<a href="#">proposal</a>		
<a href="#">POST</a> [permission only]	Grants permission to send HTTP POST requests to an Ethereum node	Permissions management			
<a href="#">RejectInvitation</a>	Grants permission to reject the invitation to join the blockchain network	Write	<a href="#">invitation*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to an Amazon Managed Blockchain resource	Tagging	<a href="#">accessor</a>		
			<a href="#">invitation</a>		
			<a href="#">member</a>		
			<a href="#">network</a>		
			<a href="#">node</a>		
			<a href="#">proposal</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an Amazon Managed Blockchain resource	Tagging	<a href="#">accessor</a> <a href="#">invitation</a> <a href="#">member</a> <a href="#">network</a> <a href="#">node</a> <a href="#">proposal</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateMember</a>	Grants permission to update a member of an Amazon Managed Blockchain network	Write	<a href="#">member*</a>		iam:CreateServiceLinkedRole
<a href="#">UpdateNode</a>	Grants permission to update a node from a member of an Amazon Managed Blockchain network	Write	<a href="#">node*</a>		iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">VoteOnProposal</a>	Grants permission to cast a vote for a proposal on behalf of the blockchain network member specified	Write	<a href="#">proposal*</a>		

## Resource types defined by Amazon Managed Blockchain

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">network</a>	arn:\${Partition}:managedblockchain:\${Region}::networks/\${NetworkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">member</a>	arn:\${Partition}:managedblockchain:\${Region}:\${Account}:members/\${MemberId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">node</a>	arn:\${Partition}:managedblockchain:\${Region}:\${Account}:nodes/\${NodeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">proposal</a>	arn:\${Partition}:managedblockchain:\${Region}::proposals/\${ProposalId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">invitation</a>	arn:\${Partition}:managedblockchain:\${Region}:\${Account}:invitations/\${InvitationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">accessor</a>	arn:\${Partition}:managedblockchain:\${Region}:\${Account}:accessors/\${AccessorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Managed Blockchain

Amazon Managed Blockchain defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on the tags associated with an Amazon Managed Blockchain resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Managed Blockchain Query

Amazon Managed Blockchain Query (service prefix: managedblockchain-query) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Managed Blockchain Query](#)
- [Resource types defined by Amazon Managed Blockchain Query](#)
- [Condition keys for Amazon Managed Blockchain Query](#)

## Actions defined by Amazon Managed Blockchain Query


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetTokenBalance</a>	Grants permission to batch calls for GetTokenBalance API	Read			
<a href="#">GetAssetContract</a>	Grants permission to fetch information about a contract on the blockchain	Read			
<a href="#">GetTokenBalance</a>	Grants permission to retrieve balance of a token for an address on the blockchain	Read			
<a href="#">GetTransaction</a>	Grants permission to retrieve a transaction on the blockchain	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssetContracts</a>	Grants permission to fetch multiple contracts on the blockchain	List			
<a href="#">ListFilteredTransactionEvents</a>	Grants permission to retrieve events on the blockchain with additional filters	List			
<a href="#">ListTokenBalances</a>	Grants permission to retrieve multiple balances on the blockchain	List			
<a href="#">ListTransactionEvents</a>	Grants permission to retrieve events in a transaction on the blockchain	List			
<a href="#">ListTransactions</a>	Grants permission to retrieve a multiple transactions on a blockchain	List			

## Resource types defined by Amazon Managed Blockchain Query

Amazon Managed Blockchain Query does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Managed Blockchain Query, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Managed Blockchain Query

Managed Blockchain Query has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Managed Grafana

Amazon Managed Grafana (service prefix: `grafana`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Managed Grafana](#)
- [Resource types defined by Amazon Managed Grafana](#)
- [Condition keys for Amazon Managed Grafana](#)

## Actions defined by Amazon Managed Grafana

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate License</a>	Grants permission to upgrade a workspace with a license	Write	<a href="#">workspace</a> *		aws-marketplace:ViewSubscriptions
<a href="#">CreateWorkspace</a>	Grants permission to create a workspace	Write		<a href="#">aws:TagKeys</a>	ec2:DescribeSecurityGroups

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	ec2:DescribeSubnets ec2:GetManagedPrefixListEntries iam:CreateServiceLinkedRole organizations:DescribeOrganization sso:CreateManagedApplicationInstance sso:DescribeRegisteredRegions sso:GetSharedSsoConfiguration

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkspaceApiKey</a>	Grants permission to create API keys for a workspace	Write	<a href="#">workspace</a> * -		
<a href="#">CreateWorkspaceServiceAccount</a>	Grants permission to create service accounts for a workspace	Write	<a href="#">workspace</a> * -		
<a href="#">CreateWorkspaceServiceAccountToken</a>	Grants permission to create service account tokens for a workspace	Write	<a href="#">workspace</a> * -		
<a href="#">DeleteWorkspace</a>	Grants permission to delete a workspace	Write	<a href="#">workspace</a> * -		sso:DeleteManagedApplicationInstance
<a href="#">DeleteWorkspaceApiKey</a>	Grants permission to delete API keys from a workspace	Write	<a href="#">workspace</a> * -		
<a href="#">DeleteWorkspaceServiceAccount</a>	Grants permission to delete service accounts for a workspace	Write	<a href="#">workspace</a> * -		
<a href="#">DeleteWorkspaceServiceAccountToken</a>	Grants permission to delete service account tokens for a workspace	Write	<a href="#">workspace</a> * -		
<a href="#">DescribeWorkspace</a>	Grants permission to describe a workspace	Read	<a href="#">workspace</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWorkspaceAuthentication</a>	Grants permission to describe authentication providers on a workspace	Read	<a href="#">workspace</a> *		
<a href="#">DescribeWorkspaceConfiguration</a>	Grants permission to describe the current configuration string for the given workspace	Read	<a href="#">workspace</a> *		
<a href="#">DisassociateLicense</a>	Grants permission to remove a license from a workspace	Write	<a href="#">workspace</a> *		
<a href="#">ListPermissions</a>	Grants permission to list the permissions on a workspace	List	<a href="#">workspace</a> *		
<a href="#">ListTagsForResource</a>	Grants permission to list tags associated with a workspace	Read	<a href="#">workspace</a>		
<a href="#">ListVersions</a>	Grants permission to list all available supported Grafana versions. Optionally, include a workspace to list the versions to which it can be upgraded	List	<a href="#">workspace</a>		
<a href="#">ListWorkspaceServiceAccountTokens</a>	Grants permission to list service account tokens for a workspace	Read	<a href="#">workspace</a> *		
<a href="#">ListWorkspaceServiceAccounts</a>	Grants permission to list service accounts for a workspace	Read	<a href="#">workspace</a> *		
<a href="#">ListWorkspaces</a>	Grants permission to list workspaces	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add tags to, or update tag values of, a workspace	Tagging	<a href="#">workspace</a> * -	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a workspace	Tagging	<a href="#">workspace</a> * -	<a href="#">aws:TagKeys</a>	
<a href="#">UpdatePermissions</a>	Grants permission to modify the permissions on a workspace	Permissions management	<a href="#">workspace</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWorkspace</a>	Grants permission to modify a workspace	Write	<a href="#">workspace</a> *		ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:GetManagedPrefixListEntries  iam:CreateServiceLinkedRole
<a href="#">UpdateWorkspaceAuthentication</a>	Grants permission to modify authentication providers on a workspace	Write	<a href="#">workspace</a> *		
<a href="#">UpdateWorkspaceConfiguration</a>	Grants permission to update the configuration string for the given workspace	Write	<a href="#">workspace</a> *		

## Resource types defined by Amazon Managed Grafana

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">workspace</a>	arn:\${Partition}:grafana:\${Region}:\${Account}:/workspaces/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Managed Grafana

Amazon Managed Grafana defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Managed Service for Prometheus

Amazon Managed Service for Prometheus (service prefix: `aps`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Managed Service for Prometheus](#)
- [Resource types defined by Amazon Managed Service for Prometheus](#)
- [Condition keys for Amazon Managed Service for Prometheus](#)

## Actions defined by Amazon Managed Service for Prometheus

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAlertManagerAlerts</a>	Grants permission to create alerts	Write	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateAlertManagerDefinition</a>	Grants permission to create an alert manager definition	Write	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAnomalyDetector</a>	Grants permission to create an anomaly detector	Write	<a href="#">workspace</a> * -	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateLoggingConfiguration</a>	Grants permission to create a logging configuration	Write	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateQueryLoggingConfiguration</a>	Grants permission to create a query logging configuration	Write	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateRuleGroupsNamespace</a>	Grants permission to create a rule groups namespace	Write	<a href="#">rulegroupnamespace</a> e*		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateScraper</a>	Grants permission to create a scraper	Write	<a href="#">cluster*</a>		aps:TagResource  ec2:DescribeSecurityGroups  ec2:DescribeSubnets  eks:DescribeCluster  iam:CreateServiceLinkedRole
			<a href="#">workspace*</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkspace</a>	Grants permission to create a workspace	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAlertManagerDefinition</a>	Grants permission to delete an alert manager definition	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAlertManagerSilence</a>	Grants permission to delete a silence	Write	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAnomalyDetector</a>	Grants permission to delete an anomaly detector	Write	<a href="#">anomalydetector*</a>		
			<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLoggingConfiguration</a>	Grants permission to delete a logging configuration	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteQueryLoggingConfiguration</a>	Grants permission to delete a query logging configuration	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete workspace resource policy	Write	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteRuleGroupsNamespace</a>	Grants permission to delete a rule groups namespace	Write	<a href="#">rulegroupnamespace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteScraper</a>	Grants permission to delete a scraper	Write	<a href="#">scraper*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteScraperLoggingConfiguration</a>	Grants permission to delete a scraper logging configuration	Write	<a href="#">scraper*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteWorkspace</a>	Grants permission to delete a workspace	Write	<a href="#">workspace*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAlertManagerDefinition</a>	Grants permission to describe an alert manager definition	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAnomalyDetector</a>	Grants permission to describe an anomaly detector	Read	<a href="#">anomalydetector*</a>		
			<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeLoggingConfiguration</a>	Grants permission to describe a logging configuration	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeQueryLoggingConfiguration</a>	Grants permission to describe a query logging configuration	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeResourcePolicy</a>	Grants permission to describe workspace resource policy	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeRuleGroupsNamespace</a>	Grants permission to describe a rule groups namespace	Read	<a href="#">rulegroupnamespace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeScraper</a>	Grants permission to describe a scraper	Read	<a href="#">scraper*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeScraperLoggingConfiguration</a>	Grants permission to describe a scraper logging configuration	Read	<a href="#">scraper*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeWorkspace</a>	Grants permission to describe a workspace	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeWorkspaceConfiguration</a>	Grants permission to describe workspace configuration	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAlertManagerSilence</a>	Grants permission to get a silence	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAlertManagerStatus</a>	Grants permission to get current status of an alertmanager	Read	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDefaultScraperConfiguration</a>	Grants permission to get default scraper configuration	Read		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLabels</a>	Grants permission to retrieve AMP workspace labels	Read	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetMetricMetadata</a>	Grants permission to retrieve the metadata for AMP workspace metrics	Read	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSeries</a>	Grants permission to retrieve AMP workspace time series data	Read	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAlertManagerAlertGroups</a>	Grants permission to list groups	Read	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAlertManagerAlerts</a>	Grants permission to list alerts	Read	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAlertManagerReceivers</a>	Grants permission to list receivers	Read	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAlertManagerSilences</a>	Grants permission to list silences	Read	<a href="#">workspace</a> * -	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAlerts</a>	Grants permission to list active alerts	Read	<a href="#">workspace</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAnomalyDetectors</a>	Grants permission to list anomaly detectors	List	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListRuleGroupsNamespaces</a>	Grants permission to list rule groups namespaces	List	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListRules</a>	Grants permission to list alerting and recording rules	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListScrapers</a>	Grants permission to list scrapers	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags on an AMP resource	Read	<a href="#">anomalydetector</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rulegroupnamespace</a>		
			<a href="#">scraper</a>		
			<a href="#">workspace</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">ListWorkspaces</a>	Grants permission to list workspaces	List			
<a href="#">PreviewAnomalyDetector</a>	Grants permission to preview anomaly detection on AMP workspace metrics	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutAlertManagerDefinition</a>	Grants permission to update an alert manager definition	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAlertManagerSilences</a>	Grants permission to create or update a silence	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutAnomalyDetector</a>	Grants permission to update an anomaly detector	Write	<a href="#">anomalydetector*</a>		
			<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutResourcePolicy</a>	Grants permission to create and update workspace resource policy	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutRuleGroupsNamespace</a>	Grants permission to update a rule groups namespace	Write	<a href="#">rulegroupnamespace*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">QueryMetrics</a>	Grants permission to run a query on AMP workspace metrics	Read	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RemoteWrite</a>	Grants permission to perform a remote write operation to initiate the streaming of metrics to AMP workspace	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag an AMP resource	Tagging	<a href="#">anomalydetector</a>		
			<a href="#">rulegroupnamespace</a>		
			<a href="#">scraper</a>		
			<a href="#">workspace</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an AMP resource	Tagging	<a href="#">anomalydetector</a> <a href="#">rulegroupnamespace</a> <a href="#">scraper</a> <a href="#">workspace</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateLoggingConfiguration</a>	Grants permission to update a logging configuration	Write	<a href="#">workspace*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateQueryLoggingConfiguration</a>	Grants permission to update a query logging configuration	Write	<a href="#">workspace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateScraper</a>	Grants permission to update a scraper	Write	<a href="#">scraper*</a>		aps:CreateScraper aps:TagResource
			<a href="#">workspace</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateScraperLoggingConfiguration</a>	Grants permission to put a scraper logging configuration	Write	<a href="#">scraper*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateWorkspaceAlias</a>	Grants permission to modify the alias of existing AMP workspace	Write	<a href="#">workspace*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWorkspaceConfiguration</a>	Grants permission to update workspace configuration	Write	<a href="#">workspace</a> * -		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Managed Service for Prometheus

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">workspace</a>	arn:\${Partition}:aps:\${Region}:\${Account}:workspace/\${WorkspaceId}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>
<a href="#">rulegroupnamespace</a>	arn:\${Partition}:aps:\${Region}:\${Account}:rulegroupnamespace/\${WorkspaceId}/\${Namespace}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">aws:TagKeys</a>
<a href="#">anomalydetector</a>	arn:\${Partition}:aps:\${Region}:\${Account}:anomalydetector/\${WorkspaceId}/\${AnomalyDetectorId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">scraper</a>	arn:\${Partition}:aps:\${Region}:\${Account}:scraper/\${ScraperId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">cluster</a>	arn:\${Partition}:eks:\${Region}:\${Account}:cluster/\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Managed Service for Prometheus

Amazon Managed Service for Prometheus defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Managed Streaming for Apache Kafka

Amazon Managed Streaming for Apache Kafka (service prefix: kafka) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Managed Streaming for Apache Kafka](#)
- [Resource types defined by Amazon Managed Streaming for Apache Kafka](#)
- [Condition keys for Amazon Managed Streaming for Apache Kafka](#)

## Actions defined by Amazon Managed Streaming for Apache Kafka

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchAssociateScramSecret</a>	Grants permission to associate one or more Scram Secrets with an Amazon MSK cluster	Write	<a href="#">cluster*</a>		kms:CreateGrant  kms:RetireGrant
<a href="#">BatchDisassociateScramSecret</a>	Grants permission to disassociate one or more Scram Secrets from an Amazon MSK cluster	Write	<a href="#">cluster*</a>		kms:RetireGrant
<a href="#">CreateCluster</a>	Grants permission to create an MSK cluster	Write	<a href="#">cluster*</a>		ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcs  iam:AttachRolePolicy  iam:CreateServiceLinkedRole  iam:PutRolePolicy



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kms:CreateGrant  kms:DescribeKey
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateClusterV2</a>	Grants permission to create an MSK cluster	Write	<a href="#">cluster*</a>		ec2:CreateTags ec2:CreateVpcEndpoint ec2:DeleteVpcEndpoints ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs iam:AttachRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:CreateServiceLinkedRole iam:PutRolePolicy kms:CreateGrant kms:DescribeKey
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfiguration</a>	Grants permission to create an MSK configuration	Write	<a href="#">configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateReplicator</a>	Grants permission to create a MSK replicator	Write	<a href="#">replicator*</a>		ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs iam:AttachRolePolicy iam:CreateServiceLinkedRole iam:PassRole iam:PutRolePolicy kafka:DescribeClusterV2 kafka:GetBootstrapBrokers

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTopic</a>	Grants permission to create a Kafka topic in an MSK cluster	Write	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:CreateTopic

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcConnection</a>	Grants permission to create a MSK VPC connection	Write	<a href="#">cluster*</a>		ec2:CreateTags ec2:CreateVpcEndpoint ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs iam:AttachRolePolicy iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:PutRolePolicy
			<a href="#">vpc-connection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteCluster</a>	Grants permission to delete an MSK cluster	Write	<a href="#">cluster*</a>		ec2:DeleteVpcEndpoints ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints
<a href="#">DeleteClusterPolicy</a>	Grants permission to delete a cluster resource-based policy	Write	<a href="#">cluster*</a>		
<a href="#">DeleteConfiguration</a>	Grants permission to delete the specified MSK configuration	Write	<a href="#">configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteReplicator</a>	Grants permission to delete a MSK replicator	Write	<a href="#">replicator*</a>		
<a href="#">DeleteTopic</a>	Grants permission to delete a Kafka topic from an MSK cluster	Write	<a href="#">topic*</a>		kafka-cluster:Connect kafka-cluster>DeleteTopic kafka-cluster:DescribeTopic
<a href="#">DeleteVpcConnection</a>	Grants permission to delete a MSK VPC connection	Write	<a href="#">vpc-connection*</a>		ec2:DeleteVpcEndpoints ec2:DescribeVpcEndpoints
<a href="#">DescribeCluster</a>	Grants permission to describe an MSK cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeClusterOperation</a>	Grants permission to describe the cluster operation that is specified by the given ARN	Read			
<a href="#">DescribeClusterOperationV2</a>	Grants permission to describe the cluster operation that is specified by the given ARN	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClusterV2</a>	Grants permission to describe an MSK cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeConfiguration</a>	Grants permission to describe an MSK configuration	Read	<a href="#">configuration*</a>		
<a href="#">DescribeConfigurationRevision</a>	Grants permission to describe an MSK configuration revision	Read	<a href="#">configuration*</a>		
<a href="#">DescribeReplicator</a>	Grants permission to describe a MSK replicator	Read	<a href="#">replicator*</a>		
<a href="#">DescribeTopic</a>	Grants permission to return metadata details about a specific Kafka topic	Read	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopic  kafka-cluster:DescribeTopicDynamicConfiguration

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTopicPartitions</a>	Grants permission to list all partitions of a specific topic	Read	<a href="#">topic*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopic  kafka-cluster:DescribeTopicDynamicConfiguration
<a href="#">DescribeVpcConnection</a>	Grants permission to describe a MSK VPC connection	Read	<a href="#">vpc-connection*</a>		
<a href="#">GetBootstrapBrokers</a>	Grants permission to get connection details for the brokers in an MSK cluster	Read			
<a href="#">GetClusterPolicy</a>	Grants permission to describe a cluster resource-based policy	Read	<a href="#">cluster*</a>		
<a href="#">GetCompatibleKafkaVersions</a>	Grants permission to get a list of the Apache Kafka versions to which you can update an MSK cluster	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListClientVpcConnections</a>	Grants permission to list all MSK VPC connections created for a cluster	List	<a href="#">cluster*</a>		
<a href="#">ListClusterOperations</a>	Grants permission to return a list of all the operations that have been performed on the specified MSK cluster	List	<a href="#">cluster*</a>		
<a href="#">ListClusterOperationsV2</a>	Grants permission to return a list of all the operations that have been performed on the specified MSK cluster	List	<a href="#">cluster*</a>		
<a href="#">ListClusters</a>	Grants permission to list all MSK clusters in this account	List			
<a href="#">ListClustersV2</a>	Grants permission to list all MSK clusters in this account	List			
<a href="#">ListConfigurationsRevisions</a>	Grants permission to list all revisions for an MSK configuration in this account	List	<a href="#">configuration*</a>		
<a href="#">ListConfigurations</a>	Grants permission to list all MSK configurations in this account	List			
<a href="#">ListKafkaVersions</a>	Grants permission to list all Apache Kafka versions supported by Amazon MSK	List			
<a href="#">ListNodes</a>	Grants permission to list brokers in an MSK cluster	List	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListReplicators</a>	Grants permission to list all MSK replicators in this account	List			
<a href="#">ListScramSecrets</a>	Grants permission to list the Scram Secrets associated with an Amazon MSK cluster	List	<a href="#">cluster*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags of an MSK resource	Read	<a href="#">cluster*</a>		
<a href="#">ListTopics</a>	Grants permission to list all Kafka topics for a specified MSK cluster	List	<a href="#">cluster*</a>		kafka-cluster:Connect  kafka-cluster:DescribeTopic
<a href="#">ListVpcConnections</a>	Grants permission to list all MSK VPC connections that this account uses	List			
<a href="#">PutClusterPolicy</a>	Grants permission to create or update the resource-based policy for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">RebootBroker</a>	Grants permission to reboot broker	Write	<a href="#">cluster*</a>		
<a href="#">RejectClientVpcConnection</a>	Grants permission to reject a MSK VPC connection	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">vpc-connection*</a>		
<a href="#">TagResource</a>	Grants permission to tag an MSK resource	Tagging	<a href="#">cluster</a>		
			<a href="#">vpc-connection</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an MSK resource	Tagging	<a href="#">cluster</a>		
			<a href="#">vpc-connection</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBrokerCount</a>	Grants permission to update the number of brokers of the MSK cluster	Write	<a href="#">cluster*</a>		
<a href="#">UpdateBrokerStorage</a>	Grants permission to update the storage size of the brokers of the MSK cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBrokerType</a>	Grants permission to update the broker type of an Amazon MSK cluster	Write	<a href="#">cluster*</a>		
<a href="#">UpdateClusterConfiguration</a>	Grants permission to update the configuration of the MSK cluster	Write	<a href="#">cluster*</a>		
			<a href="#">configuration*</a>		
<a href="#">UpdateClusterKafkaVersion</a>	Grants permission to update the MSK cluster to the specified Apache Kafka version	Write	<a href="#">cluster*</a>		
<a href="#">UpdateConfiguration</a>	Grants permission to create a new revision of the MSK configuration	Write	<a href="#">configuration*</a>		
<a href="#">UpdateConnectivity</a>	Grants permission to update the connectivity settings for the MSK cluster	Write	<a href="#">cluster*</a>		ec2:DescribeRouteTables ec2:DescribeSubnets
				<a href="#">kafka:publicAccessEnabled</a>	
<a href="#">UpdateMonitoring</a>	Grants permission to update the monitoring settings for the MSK cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRebalancing</a>	Grants permission to update the intelligent rebalancing status of the MSK cluster	Write	<a href="#">cluster*</a>		
<a href="#">UpdateReplicationInfo</a>	Grants permission to update the replication info of the MSK replicator	Write	<a href="#">replicator*</a>		
<a href="#">UpdateSecurity</a>	Grants permission to update the security settings for the MSK cluster	Write	<a href="#">cluster*</a>		kms:RetireGrant
<a href="#">UpdateStorage</a>	Grants permission to update the EBS storage (size or provisioned throughput) associated with MSK brokers or set cluster storage mode to TIERED	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTopic</a>	Grants permission to update the configuration of a Kafka topic in an MSK cluster	Write	<a href="#">topic*</a>		kafka-cluster:AlterTopic  kafka-cluster:AlterTopicDynamicConfiguration  kafka-cluster:Connect  kafka-cluster:DescribeTopic

## Resource types defined by Amazon Managed Streaming for Apache Kafka

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:cluster/\${ClusterName}/\${Uuiid}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">configuration</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:configuration/\${ConfigurationName}/\${Uuid}	
<a href="#">vpc-connection</a>	arn:\${Partition}:kafka:\${Region}:\${VpcOwnerAccount}:vpc-connection/\${ClusterOwnerAccount}/\${ClusterName}/\${Uuid}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">replicator</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:replicator/\${ReplicatorName}/\${Uuid}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">topic</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:topic/\${ClusterName}/\${ClusterUuid}/\${TopicName}	
<a href="#">group</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:group/\${ClusterName}/\${ClusterUuid}/\${GroupName}	
<a href="#">transactional-id</a>	arn:\${Partition}:kafka:\${Region}:\${Account}:transactional-id/\${ClusterName}/\${ClusterUuid}/\${TransactionalId}	

## Condition keys for Amazon Managed Streaming for Apache Kafka

Amazon Managed Streaming for Apache Kafka defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">kafka:publicAccessEnabled</a>	Filters access by the presence of public access enabled in the request	Bool

## Actions, resources, and condition keys for Amazon Managed Streaming for Kafka Connect

Amazon Managed Streaming for Kafka Connect (service prefix: `kafkaconnect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Managed Streaming for Kafka Connect](#)
- [Resource types defined by Amazon Managed Streaming for Kafka Connect](#)
- [Condition keys for Amazon Managed Streaming for Kafka Connect](#)

## Actions defined by Amazon Managed Streaming for Kafka Connect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,


you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnector</a>	Grants permission to create an MSK Connect connector	Write			ec2:CreateNetworkInterface ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs firehose:TagDeliveryStream iam:AttachRolePolicy iam:CreateServiceLinkedRole iam:PassRole iam:PutRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					logs:CreateLogDelivery logs:DescribeLogGroups logs:DescribeResourcePolicies logs:GetLogDelivery logs:ListLogDeliveries logs:PutResourcePolicy s3:GetBucketPolicy s3:PutBucketPolicy
<a href="#">CreateCustomPlugin</a>	Grants permission to create an MSK Connect custom plugin	Write			s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkerConfiguration</a>	Grants permission to create an MSK Connect worker configuration	Write			
<a href="#">DeleteConnector</a>	Grants permission to delete an MSK Connect connector	Write	<a href="#">connector*</a>		logs:DeleteLogDeliveries  logs:ListLogDeliveries
<a href="#">DeleteCustomPlugin</a>	Grants permission to delete an MSK Connect custom plugin	Write	<a href="#">customplugin*</a>		
<a href="#">DeleteWorkerConfiguration</a>	Grants permission to delete an MSK Connect worker configuration	Write	<a href="#">workerconfiguration*</a>		
<a href="#">DescribeConnector</a>	Grants permission to describe an MSK Connect connector	Read	<a href="#">connector*</a>		
<a href="#">DescribeConnectorOperation</a>	Grants permission to describe a MSK Connect connector operation	Read	<a href="#">connectoroperation*</a>		
<a href="#">DescribeCustomPlugin</a>	Grants permission to describe an MSK Connect custom plugin	Read	<a href="#">customplugin*</a>		
<a href="#">DescribeWorkerConfiguration</a>	Grants permission to describe an MSK Connect worker configuration	Read	<a href="#">workerconfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConnectorOperations</a>	Grants permission to list all operations of a given MSK Connect connector	Read	<a href="#">connector</a> *		
<a href="#">ListConnectors</a>	Grants permission to list all MSK Connect connectors in this account	Read			
<a href="#">ListCustomPlugins</a>	Grants permission to list all MSK Connect custom plugins in this account	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags of an MSK Connect resource	Read	<a href="#">connector</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">custom plugin</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">worker configuration</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListWorkerConfigurations</a>	Grants permission to list all MSK Connect worker configurations in this account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag an MSK Connect resource	Tagging	<a href="#">connector</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">custom plugin</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">worker configuration</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an MSK Connect resource	Tagging	<a href="#">connector</a>	<a href="#">aws:TagKeys</a>	
			<a href="#">custom plugin</a>	<a href="#">aws:TagKeys</a>	
			<a href="#">worker configuration</a>	<a href="#">aws:TagKeys</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConnector</a>	Grants permission to update an MSK Connect connector	Write	<a href="#">connector</a> * -		

## Resource types defined by Amazon Managed Streaming for Kafka Connect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connector</a>	arn:\${Partition}:kafkaconnect:\${Region}:\${Account}:connector/\${ConnectorName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custom plugin</a>	arn:\${Partition}:kafkaconnect:\${Region}:\${Account}:custom-plugin/\${CustomPluginName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">worker configuration</a>	arn:\${Partition}:kafkaconnect:\${Region}:\${Account}:worker-configuration/\${WorkerConfigurationName}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connector operation</a>	arn:\${Partition}:kafkaconnect:\${Region}:\${Account}:connector-operation/\${ConnectorName}/\${ConnectorUUID}/\${UUID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Managed Streaming for Kafka Connect

Amazon Managed Streaming for Kafka Connect defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Managed Workflows for Apache Airflow

Amazon Managed Workflows for Apache Airflow (service prefix: `airflow`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Managed Workflows for Apache Airflow](#)
- [Resource types defined by Amazon Managed Workflows for Apache Airflow](#)
- [Condition keys for Amazon Managed Workflows for Apache Airflow](#)

## Actions defined by Amazon Managed Workflows for Apache Airflow

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCliToken</a>	Grants permission to create a short-lived token that allows a user to invoke Airflow CLI via an endpoint on the Apache Airflow Webserver	Write	<a href="#">environme nt*</a>		
<a href="#">CreateEnvironment</a>	Grants permission to create an Amazon MWAA environment	Write	<a href="#">environme nt*</a>	<a href="#">aws:ResourceTag/ \${ TagKey}</a>  <a href="#">aws:RequestTag/ \${T agKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWebLoginToken</a>	Grants permission to create a short-lived token that allows a user to log into Apache Airflow web UI	Write	<a href="#">rbac-role *</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEnvironment</a>	Grants permission to delete an Amazon MWAA environment	Write	<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEnvironment</a>	Grants permission to view details about an Amazon MWAA environment	Read	<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">InvokeRestApi</a>	Grants permission to invoke Airflow REST API via an endpoint on the Apache Airflow Webserver	Write	<a href="#">rbac-role*</a>		
<a href="#">ListEnvironments</a>	Grants permission to list the Amazon MWAA environments in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to lists tag for an Amazon MWAA environment	Read	<a href="#">environment</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PublishMetrics</a>	Grants permission to publish metrics for an Amazon MWAA environment	Write	<a href="#">environment*</a>		
<a href="#">TagResource</a>	Grants permission to tag an Amazon MWAA environment	Tagging	<a href="#">environment</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an Amazon MWAA environment	Tagging	<a href="#">environment</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateEnvironment</a>	Grants permission to modify an Amazon MWAA environment	Write	<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Managed Workflows for Apache Airflow

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:airflow:\${Region}:\${Account}:environment/\${EnvironmentName}	
<a href="#">rbac-role</a>	arn:\${Partition}:airflow:\${Region}:\${Account}:role/\${EnvironmentName}/\${RoleName}	

## Condition keys for Amazon Managed Workflows for Apache Airflow

Amazon Managed Workflows for Apache Airflow defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Marketplace

AWS Marketplace (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace](#)
- [Resource types defined by AWS Marketplace](#)
- [Condition keys for AWS Marketplace](#)

## Actions defined by AWS Marketplace

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAgreementApprovalRequest</a>	Grants permission to users to approve an incoming subscription request (for providers who provide products that require subscription verification)	Write			
<a href="#">AcceptAgreementPaymentRequest</a>	Grants permission to users to accept a payment request	Write			
<a href="#">AcceptAgreementRequest</a>	Grants permission to users to accept their agreement requests. Note that this action is not applicable to Marketplace purchases	Write			
<a href="#">CancelAgreement</a>	Grants permission to users to cancel their agreements. Note that this action is not applicable to Marketplace purchases	Write			
<a href="#">CancelAgreementPaymentRequest</a>	Grants permission to users to cancel a payment request	Write			
<a href="#">CancelAgreementRequest</a>	Grants permission to users to cancel pending subscription requests for products that require subscription verification	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAgreementRequest</a>	Grants permission to users to create an agreement request. Note that this action is not applicable to Marketplace purchases	Write			
<a href="#">DescribeAgreement</a>	Grants permission to users to describe the metadata about the agreement	Read			
<a href="#">GetAgreementApprovalRequest</a>	Grants permission to users to view the details of their incoming subscription requests (for providers who provide products that require subscription verification)	Read			
<a href="#">GetAgreementEntitlements</a>	Grants permission to users to view the entitlements associated with an agreement	Read			
<a href="#">GetAgreementPaymentRequest</a>	Grants permission to users to view details for a payment request	Read			
<a href="#">GetAgreementRequest</a>	Grants permission to users to view the details of their subscription requests for data products that require subscription verification	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAgreementTerms</a>	Grants permission to users to get a list of terms for an agreement	List			
<a href="#">ListAgreementApprovalRequests</a>	Grants permission to users to list their incoming subscription requests (for providers who provide products that require subscription verification)	List			
<a href="#">ListAgreementCharges</a>	Grants permission to users to view charges associated with their agreements	List			
<a href="#">ListAgreementPaymentRequests</a>	Grants permission to users to list payment requests for an agreement	List			
<a href="#">ListAgreementRequests</a>	Grants permission to users to list their subscription requests for products that require subscription verification	List			
<a href="#">ListEntitlementDetails</a>	Grants permission to users to view details of the entitlements associated with an agreement. Note that this action is not applicable to Marketplace purchases	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectAgreementApprovalRequest</a>	Grants permission to users to decline an incoming subscription requests (for providers who provide products that require subscription verification)	Write			
<a href="#">RejectAgreementPaymentRequest</a>	Grants permission to users to reject a payment request	Write			
<a href="#">SearchAgreements</a>	Grants permission to users to search their agreements	List			
<a href="#">SendAgreementPaymentRequest</a>	Grants permission to users to send payment request	Write			
<a href="#">Subscribe</a>	Grants permission to users to subscribe to AWS Marketplace products. Includes the ability to send a subscription request for products that require subscription verification. Includes the ability to enable auto-renewal for an existing subscription	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Unsubscribe</a>	Grants permission to users to remove subscriptions to AWS Marketplace products. Includes the ability to disable auto-renewal for an existing subscription	Write			
<a href="#">UpdateAgreementApprovalRequest</a>	Grants permission to users to make changes to an incoming subscription request, including the ability to delete the prospective subscriber's information (for providers who provide products that require subscription verification)	Write			
<a href="#">UpdatePurchaseOrders</a>	Grants permission to users to update purchase orders for charges associated with their agreements	Write			
<a href="#">ViewSubscriptions</a>	Grants permission to users to see their account's subscriptions	List			

## Resource types defined by AWS Marketplace

AWS Marketplace does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace

AWS Marketplace defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws-marketplace:AgreementType</a>	Filters access by the type of the agreement	ArrayOfString
<a href="#">aws-marketplace:PartyType</a>	Filters access by the party type of the agreement	String
<a href="#">aws-marketplace:ProductId</a>	Filters access by product id for AWS Marketplace RedHat OpenShift and Bedrock Products. Note: Using this condition key will not restrict access to products in AWS Marketplace	ArrayOfString

## Actions, resources, and condition keys for AWS Marketplace Catalog

AWS Marketplace Catalog (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Catalog](#)



- [Resource types defined by AWS Marketplace Catalog](#)
- [Condition keys for AWS Marketplace Catalog](#)

## Actions defined by AWS Marketplace Catalog

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelChangeSet</a>	Grants permission to cancel a running change set	Write	<a href="#">ChangeSet*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the resource policy of an existing entity	Permissions management	<a href="#">Entity*</a>		
<a href="#">DescribeAssessment</a>	Grants permission to return the details of an existing assessment	Read	<a href="#">Assessment*</a>		
<a href="#">DescribeChangeSet</a>	Grants permission to return the details of an existing change set	Read	<a href="#">ChangeSet*</a>		
<a href="#">DescribeEntity</a>	Grants permission to return the details of an existing entity	Read	<a href="#">Entity*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy of an existing entity	Read	<a href="#">Entity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssessments</a>	Grants permission to list existing assessments	List			
<a href="#">ListChangeSets</a>	Grants permission to list existing change sets	List			
<a href="#">ListEntities</a>	Grants permission to list existing entities	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags on an existing entity or a change set	Read	<a href="#">ChangeSet</a> <a href="#">Entity</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource policy to an existing entity	Permissions management	<a href="#">Entity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartChangeSet</a>	Grants permission to request a new change set (Note: resource-level permissions for this action and condition context keys for this action are only supported when used with Catalog API and are not supported when used with AWS Marketplace Management Portal)	Write	<a href="#">Entity*</a>	<a href="#">catalog:ChangeType</a>  <a href="#">aws-marketplace:Intent</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to tag an existing entity or a change set	Tagging	<a href="#">ChangeSet</a>  <a href="#">Entity</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an existing entity or a change set	Tagging	<a href="#">ChangeSet</a>  <a href="#">Entity</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Marketplace Catalog

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Entity</a>	arn:\${Partition}:aws-marketplace:\${Region}:\${Account}:\${Catalog}/\${EntityType}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">catalog:ChangeType</a>
<a href="#">ChangeSet</a>	arn:\${Partition}:aws-marketplace:\${Region}:\${Account}:\${Catalog}/ChangeSet/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">catalog:ChangeType</a>
<a href="#">Assessment</a>	arn:\${Partition}:aws-marketplace:\${Region}::\${Catalog}/Assessment/\${ResourceId}	

## Condition keys for AWS Marketplace Catalog

AWS Marketplace Catalog defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws-marketplace:Intent</a>	Filters access by the Intent parameter in the StartChangeSet request	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">catalog:ChangeType</a>	Filters access by the change type in the StartChangeSet request	String

## Actions, resources, and condition keys for AWS Marketplace Commerce Analytics Service

AWS Marketplace Commerce Analytics Service (service prefix: `marketplacecommerceanalytics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

### Topics

- [Actions defined by AWS Marketplace Commerce Analytics Service](#)

- [Resource types defined by AWS Marketplace Commerce Analytics Service](#)
- [Condition keys for AWS Marketplace Commerce Analytics Service](#)

## Actions defined by AWS Marketplace Commerce Analytics Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
GeneratedDataSet	Request a data set to be published to your Amazon S3 bucket.	Write			
StartSupportDataExport	Request a support data set to be published to your Amazon S3 bucket.	Write			

## Resource types defined by AWS Marketplace Commerce Analytics Service

AWS Marketplace Commerce Analytics Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Commerce Analytics Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Commerce Analytics Service

CAS has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).



# Actions, resources, and condition keys for AWS Marketplace Deployment Service

AWS Marketplace Deployment Service (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Marketplace Deployment Service](#)
- [Resource types defined by AWS Marketplace Deployment Service](#)
- [Condition keys for AWS Marketplace Deployment Service](#)

## Actions defined by AWS Marketplace Deployment Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a deployment parameter resource	Read	<a href="#">DeploymentParameter</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutDeploymentParameter</a>	Grants permission to create or update a deployment parameter resource	Write	<a href="#">DeploymentsParameter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	aws-marketplace:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a deployment parameter resource	Tagging	<a href="#">Deployer</a> <a href="#">tParameter</a> <a href="#">r*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a deployment parameter resource	Tagging	<a href="#">Deployer</a> <a href="#">tParameter</a> <a href="#">r*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Marketplace Deployment Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">DeploymentParameter</a>	arn:\${Partition}:aws-marketplace:\${Region}:\${Account}:DeploymentParameter:catalogs/\${CatalogName}/products/\${ProductId}/\${ResourceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

## Condition keys for AWS Marketplace Deployment Service

AWS Marketplace Deployment Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions

under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Marketplace Discovery

AWS Marketplace Discovery (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Discovery](#)
- [Resource types defined by AWS Marketplace Discovery](#)
- [Condition keys for AWS Marketplace Discovery](#)

## Actions defined by AWS Marketplace Discovery

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPrivateListings</a>	Grants permission to users to list their private offers	List			

## Resource types defined by AWS Marketplace Discovery

AWS Marketplace Discovery does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Discovery, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Discovery

Marketplace Discovery has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Entitlement Service

AWS Marketplace Entitlement Service (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Entitlement Service](#)
- [Resource types defined by AWS Marketplace Entitlement Service](#)
- [Condition keys for AWS Marketplace Entitlement Service](#)



## Actions defined by AWS Marketplace Entitlement Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEntitlements</a>	Grants permission to retrieve entitlement values for a given product. The results can be filtered based on customer identifier or product dimensions	Read			

## Resource types defined by AWS Marketplace Entitlement Service

AWS Marketplace Entitlement Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Entitlement Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Entitlement Service

Marketplace Entitlement has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Image Building Service

AWS Marketplace Image Building Service (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Marketplace Image Building Service](#)
- [Resource types defined by AWS Marketplace Image Building Service](#)
- [Condition keys for AWS Marketplace Image Building Service](#)

## Actions defined by AWS Marketplace Image Building Service


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBuilds</a> [permission only]	Describes Image Builds identified by a build Id	Read			
<a href="#">ListBuilds</a> [permission only]	Lists Image Builds.	Read			
<a href="#">StartBuild</a> [permission only]	Starts an Image Build	Write			

## Resource types defined by AWS Marketplace Image Building Service

AWS Marketplace Image Building Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Image Building Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Image Building Service

Marketplace Image Build has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Management Portal

AWS Marketplace Management Portal (service prefix: aws-marketplace-management) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Management Portal](#)
- [Resource types defined by AWS Marketplace Management Portal](#)
- [Condition keys for AWS Marketplace Management Portal](#)

## Actions defined by AWS Marketplace Management Portal

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAdditionalSellerNotificationRecipients</a> [permission only]	Grants permission to view additional seller notification recipients	Read			
<a href="#">GetBankAccountVerificationDetails</a> [permission only]	Grants permission to view bank account verification status	Read			
<a href="#">GetSecondaryUserVerificationDetails</a> [permission only]	Grants permission to view secondary user account verification status	Read			
<a href="#">GetSellerVerificationDetails</a> [permission only]	Grants permission to view account verification status	Read			
<a href="#">PutAdditionalSellerNotificationRecipients</a>	Grants permission to update additional seller notification recipients	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ients</a> [permission only]					
<a href="#">PutBankAccountVerificationDetails</a> [permission only]	Grants permission to update bank account verification status	Write			
<a href="#">PutSecondaryUserVerificationDetails</a> [permission only]	Grants permission to update secondary user account verification status	Write			
<a href="#">PutSellerVerificationDetails</a> [permission only]	Grants permission to update account verification status	Write			
<a href="#">uploadFiles</a> [permission only]	Allows access to the File Upload page inside the AWS Marketplace Management Portal	Write			
<a href="#">viewMarketing</a> [permission only]	Allows access to the Marketing page inside the AWS Marketplace Management Portal	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">viewReports</a> [permission only]	Allows access to the Reports page inside the AWS Marketplace Management Portal	List			
<a href="#">viewSettings</a> [permission only]	Allows access to the Settings page inside the AWS Marketplace Management Portal	List			
<a href="#">viewSupport</a> [permission only]	Allows access to the Customer Support Eligibility page inside the AWS Marketplace Management Portal	List			

## Resource types defined by AWS Marketplace Management Portal

AWS Marketplace Management Portal does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Management Portal, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Management Portal

Marketplace Portal has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Metering Service

AWS Marketplace Metering Service (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Marketplace Metering Service](#)
- [Resource types defined by AWS Marketplace Metering Service](#)
- [Condition keys for AWS Marketplace Metering Service](#)

## Actions defined by AWS Marketplace Metering Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchMeterUsage</a>	Grants permission to post metering records for a set of customers for SaaS applications	Write			
<a href="#">MeterUsage</a>	Grants permission to emit metering records	Write			
<a href="#">RegisterUsage</a>	Grants permission to verify that the customer running your paid software is subscribed to your product on AWS Marketplace,	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	enabling you to guard against unauthorized use. Meters software use per ECS task, per hour, with usage prorated to the second				
<a href="#">ResolveCustomer</a>	Grants permission to resolve a registration token to obtain a CustomerIdentifier and product code	Write			

## Resource types defined by AWS Marketplace Metering Service

AWS Marketplace Metering Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Metering Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Metering Service

Marketplace Metering has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Private Marketplace

AWS Marketplace Private Marketplace (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Marketplace Private Marketplace](#)
- [Resource types defined by AWS Marketplace Private Marketplace](#)
- [Condition keys for AWS Marketplace Private Marketplace](#)

## Actions defined by AWS Marketplace Private Marketplace

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateProductsWithPrivateMarketplace</a> [permission only]	Grants permission to approve a request for a product to be associated with the Private Marketplace. This action can be performed by any account in an AWS Organization, provided the user has permissions to do so, and the Organization's Service Control Policies allow it	Write			
<a href="#">CreatePrivateMarketplaceRequests</a> [permission only]	Grants permission to create a new request for a product or products to be associated with the Private Marketplace. This action can be performed by any account in an in an AWS Organization, provided the user has permissions to	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	do so, and the Organization's Service Control Policies allow it				
<a href="#">DescribePrivateMarketplaceRequests</a> [permission only]	Grants permission to describe requests and associated products in the Private Marketplace. This action can be performed by any account in an AWS Organization, provided the user has permissions to do so, and the Organization's Service Control Policies allow it	List			
<a href="#">DisassociateProductsFromPrivateMarketplace</a> [permission only]	Grants permission to decline a request for a product to be associated with the Private Marketplace. This action can be performed by any account in an AWS Organization, provided the user has permissions to do so, and the Organization's Service Control Policies allow it	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPrivateMarketplaceRequests</a> [permission only]	Grants permission to get a queryable list for requests and associated products in the Private Marketplace. This action can be performed by any account in an AWS Organization, provided the user has permissions to do so, and the Organization's Service Control Policies allow it	List			

## Resource types defined by AWS Marketplace Private Marketplace

AWS Marketplace Private Marketplace does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Private Marketplace, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Private Marketplace

Private Marketplace has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Procurement Systems Integration

AWS Marketplace Procurement Systems Integration (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:



- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Marketplace Procurement Systems Integration](#)
- [Resource types defined by AWS Marketplace Procurement Systems Integration](#)
- [Condition keys for AWS Marketplace Procurement Systems Integration](#)

## Actions defined by AWS Marketplace Procurement Systems Integration

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeProcurementSystemConfiguration</a> [permission only]	Grants permission to describe the Procurement System integration configuration (e.g. Coupa) for the individual account, or for the entire AWS Organization if one exists. This action can only be performed by the master account if using an AWS Organization	Read			
<a href="#">PutProcurementSystemConfiguration</a> [permission only]	Grants permission to create or update the Procurement System integration configuration (e.g. Coupa) for the individual account, or for the entire AWS Organization if	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	one exists. This action can only be performed by the master account if using an AWS Organization				

## Resource types defined by AWS Marketplace Procurement Systems Integration

AWS Marketplace Procurement Systems Integration does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Marketplace Procurement Systems Integration, specify "Resource": "\*" in your policy.

## Condition keys for AWS Marketplace Procurement Systems Integration

Marketplace Procurement Integration has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Reporting

AWS Marketplace Reporting (service prefix: aws-marketplace) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Reporting](#)
- [Resource types defined by AWS Marketplace Reporting](#)
- [Condition keys for AWS Marketplace Reporting](#)

## Actions defined by AWS Marketplace Reporting

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBuyerDashboard</a>	Grants permission to view a dashboard that shows a buyer's AWS Marketplace purchase data	Read	<a href="#">Dashboard</a> *		

## Resource types defined by AWS Marketplace Reporting

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Dashboard</a>	arn:\${Partition}:aws-marketplace::\${Account}:\${Catalog}/ReportingData/\${FactTable}/Dashboard/\${DashboardName}	

## Condition keys for AWS Marketplace Reporting

Marketplace Reporting has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Seller Reporting

AWS Marketplace Seller Reporting (service prefix: `aws-marketplace`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Seller Reporting](#)
- [Resource types defined by AWS Marketplace Seller Reporting](#)
- [Condition keys for AWS Marketplace Seller Reporting](#)

## Actions defined by AWS Marketplace Seller Reporting

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSellerDashboard</a>	Grants permission to view a seller dashboard	Read	<a href="#">SellerDashboard*</a>		

## Resource types defined by AWS Marketplace Seller Reporting

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">SellerDashboard</a>	arn:\${Partition}:aws-marketplace::\${Account}:\${Catalog}/ReportingData/\${FactTable}/Dashboard/\${DashboardName}	

## Condition keys for AWS Marketplace Seller Reporting

Marketplace Seller Reporting has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Marketplace Vendor Insights

AWS Marketplace Vendor Insights (service prefix: `vendor-insights`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Marketplace Vendor Insights](#)



- [Resource types defined by AWS Marketplace Vendor Insights](#)
- [Condition keys for AWS Marketplace Vendor Insights](#)

## Actions defined by AWS Marketplace Vendor Insights

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateSecurityProfile</a>	Grants permission to activate the security profile	Write	<a href="#">SecurityProfile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">AssociateDataSource</a>	Grants permission to associate security profile with a data source	Write	<a href="#">SecurityProfile*</a>		vendor-insights:GetDataSource
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateDataSource</a>	Grants permission to create a new data source	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>	vendor-insights:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSecurityProfile</a>	Grants permission to create a new security profile	Write		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	vendor-insights:TagResource
<a href="#">DeactivateSecurityProfile</a>	Grants permission to deactivate the security profile	Write	<a href="#">SecurityProfile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDataSource</a>	Grants permission to delete a data source	Write	<a href="#">DataSource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateDataSource</a>	Grants permission to disassociate security profile from a data source	Write	<a href="#">SecurityProfile*</a>		vendor-insights:GetDataSource
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDataSource</a>	Grants permission to retrieve the details of an existing data source	Read	<a href="#">DataSource*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEntitledSecurityProfileSnapshot</a>	Grants permission to return the details of a security profile snapshot that requester is entitled to read	Read	<a href="#">SecurityProfile*</a>		
<a href="#">GetProfileAccessTerms</a>	Grants permission to get the access terms for a vendor insights profile	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSecurityProfile</a>	Grants permission to return the details of an existing security profile	Read	<a href="#">SecurityProfile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSecurityProfileSnapshot</a>	Grants permission to return the details of a security profile snapshot	Read	<a href="#">SecurityProfile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListDataSources</a>	Grants permission to list existing data sources	List			
<a href="#">ListEntitledSecurityProfileSnapshots</a>	Grants permission to return the snapshot summary list for an existing security profile that requester is entitled to list	List	<a href="#">SecurityProfile*</a>		
<a href="#">ListEntitledSecurityProfiles</a>	Grants permission to list entitled security profiles	List			
<a href="#">ListSecurityProfileSnapshots</a>	Grants permission to return the snapshot summary list for an existing security profile	List	<a href="#">SecurityProfile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListSecurityProfiles</a>	Grants permission to list existing security profiles	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for vendor insights resource	Read	<a href="#">DataSource</a>		
			<a href="#">SecurityProfile</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag vendor insights resource	Tagging	<a href="#">DataSource</a>		
			<a href="#">SecurityProfile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag vendor insights resource	Tagging	<a href="#">DataSource</a>  <a href="#">SecurityProfile</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateDataSource</a>	Grants permission to update an existing data source	Write	<a href="#">DataSource*</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSecurityProfile</a>	Grants permission to update the security profile	Write	<a href="#">SecurityProfile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSecurityProfileSnapshotCreationConfiguration</a>	Grants permission to update the security profile snapshot creation configuration	Write	<a href="#">SecurityProfile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSecurityProfileSnapshotReleaseConfiguration</a>	Grants permission to update the security profile snapshot release configuration	Write	<a href="#">SecurityProfile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Marketplace Vendor Insights

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">DataSource</a>	arn:\${Partition}:vendor-insights:::data-source:\${ResourceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">SecurityProfile</a>	arn:\${Partition}:vendor-insights:::security-profile:\${ResourceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

## Condition keys for AWS Marketplace Vendor Insights

AWS Marketplace Vendor Insights defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS MCP Server

AWS MCP Server (service prefix: `aws-mcp`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS MCP Server](#)
- [Resource types defined by AWS MCP Server](#)
- [Condition keys for AWS MCP Server](#)

## Actions defined by AWS MCP Server

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CallReadOnlyTool</a>	Grants permission to call read-only tools in MCP service	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CallReadWriteTool</a>	Grants permission to call AWS Read and Write apis in MCP Service	Write			
<a href="#">InvokeMcp</a>	Grants permission to use MCP service	List			

## Resource types defined by AWS MCP Server

AWS MCP Server does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS MCP Server, specify "Resource": "\*" in your policy.

## Condition keys for AWS MCP Server

AWS MCP has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Mechanical Turk

Amazon Mechanical Turk (service prefix: mechanicalturk) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Mechanical Turk](#)
- [Resource types defined by Amazon Mechanical Turk](#)

- [Condition keys for Amazon Mechanical Turk](#)

## Actions defined by Amazon Mechanical Turk

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptQualificationRequest</a>	The AcceptQualificationRequest operation grants a Worker's request for a Qualification	Write			
<a href="#">ApproveAssignment</a>	The ApproveAssignment operation approves the results of a completed assignment	Write			
<a href="#">AssociateQualificationWithWorker</a>	The AssociateQualificationWithWorker operation gives a Worker a Qualification	Write			
<a href="#">CreateAdditionalAssignmentsForHIT</a>	The CreateAdditionalAssignmentsForHIT operation increases the maximum number of assignments of an existing HIT	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHIT</a>	The CreateHIT operation creates a new HIT (Human Intelligence Task)	Write			
<a href="#">CreateHIT Type</a>	The CreateHITType operation creates a new HIT type	Write			
<a href="#">CreateHIT WithHITType</a>	The CreateHITWithHITType operation creates a new Human Intelligence Task (HIT) using an existing HITTypeID generated by the CreateHIT Type operation	Write			
<a href="#">CreateQualificationType</a>	The CreateQualificationType operation creates a new Qualification type, which is represented by a QualificationType data structure	Write			
<a href="#">CreateWorkerBlock</a>	The CreateWorkerBlock operation allows you to prevent a Worker from working on your HITs	Write			
<a href="#">DeleteHIT</a>	The DeleteHIT operation disposes of a HIT that is no longer needed	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteQualificationType</a>	The DeleteQualificationType disposes a Qualification type and disposes any HIT types that are associated with the Qualification type	Write			
<a href="#">DeleteWorkerBlock</a>	The DeleteWorkerBlock operation allows you to reinstate a blocked Worker to work on your HITs	Write			
<a href="#">DisassociateQualificationFromWorker</a>	The DisassociateQualificationFromWorker revokes a previously granted Qualification from a user	Write			
<a href="#">GetAccountBalance</a>	The GetAccountBalance operation retrieves the amount of money in your Amazon Mechanical Turk account	Read			
<a href="#">GetAssignment</a>	The GetAssignment retrieves an assignment with an AssignmentStatus value of Submitted, Approved, or Rejected, using the assignment's ID	Read			
<a href="#">GetFileUploadURL</a>	The GetFileUploadURL operation generates and returns a temporary URL	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHIT</a>	The GetHIT operation retrieves the details of the specified HIT	Read			
<a href="#">GetQualificationScore</a>	The GetQualificationScore operation returns the value of a Worker's Qualification for a given Qualification type	Read			
<a href="#">GetQualificationType</a>	The GetQualificationType operation retrieves information about a Qualification type using its ID	Read			
<a href="#">ListAssignmentsForHIT</a>	The ListAssignmentsForHIT operation retrieves completed assignments for a HIT	List			
<a href="#">ListBonusPayments</a>	The ListBonusPayments operation retrieves the amounts of bonuses you have paid to Workers for a given HIT or assignment	List			
<a href="#">ListHITs</a>	The ListHITs operation returns all of a Requester's HITs	List			
<a href="#">ListHITsForQualificationType</a>	The ListHITsForQualificationType operation returns the HITs that use the given QualificationType for a QualificationRequirement	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListQualificationRequests</a>	The ListQualificationRequests operation retrieves requests for Qualifications of a particular Qualification type	List			
<a href="#">ListQualificationTypes</a>	The ListQualificationTypes operation searches for Qualification types using the specified search query, and returns a list of Qualification types	List			
<a href="#">ListReviewPolicyResultsForHIT</a>	The ListReviewPolicyResultsForHIT operation retrieves the computed results and the actions taken in the course of executing your Review Policies during a CreateHIT operation	List			
<a href="#">ListReviewableHITs</a>	The ListReviewableHITs operation returns all of a Requester's HITs that have not been approved or rejected	List			
<a href="#">ListWorkerBlocks</a>	The ListWorkersBlocks operation retrieves a list of Workers who are blocked from working on your HITs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListWorkersWithQualificationType</a>	The ListWorkersWithQualificationType operation returns all of the Workers with a given Qualification type	List			
<a href="#">NotifyWorkers</a>	The NotifyWorkers operation sends an email to one or more Workers that you specify with the Worker ID	Write			
<a href="#">RejectAssignment</a>	The RejectAssignment operation rejects the results of a completed assignment	Write			
<a href="#">RejectQualificationRequest</a>	The RejectQualificationRequest operation rejects a user's request for a Qualification	Write			
<a href="#">SendBonus</a>	The SendBonus operation issues a payment of money from your account to a Worker	Write			
<a href="#">SendTestEventNotification</a>	The SendTestEventNotification operation causes Amazon Mechanical Turk to send a notification message as if a HIT event occurred, according to the provided notification specification	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateExpirationForHIT</a>	The UpdateExpirationForHIT operation allows you extend the expiration time of a HIT beyond its current expiration or expire a HIT immediately	Write			
<a href="#">UpdateHITReviewStatus</a>	The UpdateHITReviewStatus operation toggles the status of a HIT	Write			
<a href="#">UpdateHITTypeOfHIT</a>	The UpdateHITTypeOfHIT operation allows you to change the HITType properties of a HIT	Write			
<a href="#">UpdateNotificationSettings</a>	The UpdateNotificationSettings operation creates, updates, disables or re-enables notifications for a HIT type	Write			
<a href="#">UpdateQualificationType</a>	The UpdateQualificationType operation modifies the attributes of an existing Qualification type, which is represented by a QualificationType data structure	Write			

## Resource types defined by Amazon Mechanical Turk

Amazon Mechanical Turk does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Mechanical Turk, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Mechanical Turk

MechanicalTurk has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon MemoryDB

Amazon MemoryDB (service prefix: `memorydb`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon MemoryDB](#)
- [Resource types defined by Amazon MemoryDB](#)
- [Condition keys for Amazon MemoryDB](#)

## Actions defined by Amazon MemoryDB

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

#### Note

When you create a MemoryDB for Redis policy in IAM you must use the "\*" wildcard character for the Resource block. For information about using the following MemoryDB for Redis API actions in an IAM policy, see [MemoryDB Actions and IAM](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchUpdateCluster</a>	Grants permissions to apply service updates	Write	<a href="#">cluster*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs s3:GetObject
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Connect</a>	Allows an IAM user or role to connect as a specified MemoryDB user to a node in a cluster	Write	<a href="#">cluster*</a>		
			<a href="#">user*</a>		
				<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">CopySnapshot</a>	Grants permissions to make a copy of an existing snapshot	Write	<a href="#">snapshot*</a>		memorydb:TagResource s3:DeleteObject s3:GetBucketAcl s3:PutObject
<a href="#">CreateAcl</a>	Grants permissions to create a new access control list	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	memorydb:TagResource



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permissions to create a cluster	Write	<a href="#">acl*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs memorydb:TagResource s3:GetObject
			<a href="#">parametergroup*</a>		
			<a href="#">subnetgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">multiregioncluster</a>		
			<a href="#">snapshot</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">memorydb:TLSEnabled</a>	
<a href="#">CreateMultiRegionCluster</a>	Grants permissions to create a Multi-Region cluster	Write	<a href="#">multiregionparametergroup*</a>		memorydb:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">memorydb:TLSEnabled</a>	
<a href="#">CreateParameterGroup</a>	Grants permissions to create a new parameter group	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	memorydb:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSnapshot</a>	Grants permissions to create a backup of a cluster at the current point in time	Write	<a href="#">cluster*</a>		memorydb: TagResource  s3:DeleteObject  s3:GetBucketAcl  s3:PutObject
<a href="#">CreateSubnetGroup</a>	Grants permissions to create a new subnet group	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	memorydb: TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUser</a>	Grants permissions to create a new user	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">memorydb:UserAuthenticationMode</a>	memorydb:TagResource
<a href="#">DeleteAcl</a>	Grants permissions to delete an access control list	Write	<a href="#">acl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCluster</a>	Grants permissions to delete a previously provisioned cluster	Write	<a href="#">cluster*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
			<a href="#">multiregioncluster</a>		
			<a href="#">snapshot</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteMultiRegionCluster</a>	Grants permissions to delete a Multi-Region cluster	Write	<a href="#">multiregioncluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteParameterGroup</a>	Grants permissions to delete a parameter group	Write	<a href="#">parameter group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSnapshot</a>	Grants permissions to delete a snapshot	Write	<a href="#">snapshot*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSubnetGroup</a>	Grants permissions to delete a subnet group	Write	<a href="#">subnetgroup*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
<a href="#">DeleteUser</a>	Grants permissions to delete a user	Write	<a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAcls</a>	Grants permissions to retrieve information about access control lists	Read	<a href="#">acl*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeClusters</a>	Grants permissions to retrieve information about all provisioned clusters if no cluster identifier is specified, or about a specific cluster if a cluster identifier is supplied	Read	<a href="#">cluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeEngineVersions</a>	Grants permissions to list of the available engines and their versions	Read			
<a href="#">DescribeEvents</a>	Grants permissions to retrieve events related to clusters, subnet groups, and parameter groups	Read			
<a href="#">DescribeMultiRegionClusters</a>	Grants permissions to retrieve information about all Multi-Region clusters if no cluster identifier is specified, or about a specific Multi-Region cluster if a cluster identifier is supplied	Read	<a href="#">multiregioncluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMultiRegionParameterGroups</a>	Grants permissions to retrieve information about Multi-Region parameter groups	Read	<a href="#">multi-region-parameter-group*</a>		
<a href="#">DescribeMultiRegionParameters</a>	Grants permissions to retrieve a detailed parameter list for a particular Multi-Region parameter group	Read	<a href="#">multi-region-parameter-group*</a>		
<a href="#">DescribeParameterGroups</a>	Grants permissions to retrieve information about parameter groups	Read	<a href="#">parameter-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeParameters</a>	Grants permissions to retrieve a detailed parameter list for a particular parameter group	Read	<a href="#">parameter-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeReservedNodes</a>	Grants permissions to retrieve reserved nodes	Read	<a href="#">reserved-node*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeReservedNodesOfferings</a>	Grants permissions to retrieve reserved nodes offerings	Read			
<a href="#">DescribeServiceUpdates</a>	Grants permissions to retrieve details of the service updates	Read			
<a href="#">DescribeSnapshots</a>	Grants permissions to retrieve information about cluster snapshots	Read	<a href="#">snapshot*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeSubnetGroups</a>	Grants permissions to retrieve a list of subnet group	Read	<a href="#">subnetgroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeUsers</a>	Grants permissions to retrieve information about users	Read	<a href="#">user*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">FailoverShard</a>	Grants permissions to test automatic failover on a specified shard in a cluster	Write	<a href="#">cluster*</a>		ec2:CreateNetworkInterface ec2>DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
<a href="#">ListAllowedMultiRegionClusterUpdates</a>	Grants permissions to list available Multi-Region cluster updates	Read	<a href="#">multiregioncluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAllowedNodeTypeUpdates</a>	Grants permissions to list available node type updates	Read	<a href="#">cluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTags</a>	Grants permissions to list cost allocation tags	Read	<a href="#">acl</a>		
			<a href="#">cluster</a>		
			<a href="#">multiregioncluster</a>		
			<a href="#">parametergroup</a>		
			<a href="#">snapshot</a>		
			<a href="#">subnetgroup</a>		
			<a href="#">user</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PauseMultiRegionClusterReplication</a> [permission only]	Grants permission to pause replication for a Multi-Region cluster	Write	<a href="#">multiregioncluster*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PurchaseReservedNodesOffering</a>	Grants permissions to purchase a new reserved node	Write	<a href="#">reservednode*</a>		memorydb:TagResource
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">ResetParameterGroup</a>	Grants permissions to modify the parameters of a parameter group to the engine or system default value	Write	<a href="#">parametergroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permissions to add up to 10 cost allocation tags to the named resource	Tagging	<a href="#">acl</a> <a href="#">cluster</a> <a href="#">multiregioncluster</a> <a href="#">parametergroup</a> <a href="#">reservednode</a> <a href="#">snapshot</a> <a href="#">subnetgroup</a> <a href="#">user</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>		Tagging	<a href="#">acl</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permissions to remove the tags identified by the TagKeys list from a resource		<a href="#">cluster</a> <a href="#">multiregioncluster</a> <a href="#">parametergroup</a> <a href="#">snapshot</a> <a href="#">subnetgroup</a> <a href="#">user</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAcl</a>	Grants permissions to update an access control list	Write	<a href="#">acl*</a> <a href="#">user*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCluster</a>	Grants permissions to update the settings for a cluster	Write	<a href="#">cluster*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
			<a href="#">acl</a>		
			<a href="#">parameter group</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMultiRegionCluster</a>	Grants permissions to update the settings for a Multi-Region cluster	Write	<a href="#">multiregioncluster*</a>		ec2:CreateNetworkInterface ec2:DeleteNetworkInterface ec2:DescribeNetworkInterfaces ec2:DescribeSubnets ec2:DescribeVpcs
			<a href="#">multiregionparametergroup</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateParameterGroup</a>	Grants permissions to update parameters in a parameter group	Write	<a href="#">parametergroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSubnetGroup</a>	Grants permissions to update a subnet group	Write	<a href="#">subnetgroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateUser</a>	Grants permissions to update a user	Write	<a href="#">user*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">memorydbUserAuthenticationMode</a>	

## Resource types defined by Amazon MemoryDB

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

**Note**

The resource name in the ARN string should be lowercase to be effective.

Resource types	ARN	Condition keys
<a href="#">multiregionparametergroup</a>	arn:\${Partition}:memorydb:\${Account}:multiregionparametergroup/\${MultiRegionParameterGroupName}	
<a href="#">parametergroup</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:parametergroup/\${ParameterGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subnetgroup</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:subnetgroup/\${SubnetGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">multiregioncluster</a>	arn:\${Partition}:memorydb:\${Account}:multiregioncluster/\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">memorydb:TLSEnabled</a>
<a href="#">cluster</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:cluster/\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">snapshot</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:snapshot/\${SnapshotName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">user</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:user/\${UserName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">acl</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:acl/\${AclName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">reservednode</a>	arn:\${Partition}:memorydb:\${Region}:\${Account}:reservednode/\${ReservationID}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon MemoryDB

Amazon MemoryDB defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the tag keys that are passed in the request	ArrayOfString
<a href="#">memorydb:TLSEnabled</a>	Filters access by the <code>TLSEnabled</code> parameter present in the request or defaults to true value if parameter is not present	Bool
<a href="#">memorydb:UserAuthenticationMode</a>	Filters access by the <code>UserAuthenticationMode.Type</code> parameter in the request	String

## Actions, resources, and condition keys for Amazon Message Delivery Service

Amazon Message Delivery Service (service prefix: `ec2messages`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Message Delivery Service](#)
- [Resource types defined by Amazon Message Delivery Service](#)
- [Condition keys for Amazon Message Delivery Service](#)

### Actions defined by Amazon Message Delivery Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcknowledgeMessage</a>	Grants permission to acknowledge a message, ensuring it will not be delivered again	Write			
<a href="#">DeleteMessage</a>	Grants permission to delete a message	Write			
<a href="#">FailMessage</a>	Grants permission to fail a message, signifying the	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	message could not be processed successfully, ensuring it cannot be replied to or delivered again				
<a href="#">GetEndpoint</a>	Grants permission to route traffic to the correct endpoint based on the given destination for the messages	Read			
<a href="#">GetMessages</a>	Grants permission to deliver messages to clients/instances using long polling	Read		<a href="#">ssm:SourceInstanceARN</a>  <a href="#">ec2:SourceInstanceARN</a>	
<a href="#">SendReply</a>	Grants permission to send replies from clients/instances to upstream service	Write		<a href="#">ssm:SourceInstanceARN</a>  <a href="#">ec2:SourceInstanceARN</a>	

## Resource types defined by Amazon Message Delivery Service

Amazon Message Delivery Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Message Delivery Service, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Message Delivery Service

Amazon Message Delivery Service defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">ec2:SourceInstanceARN</a>	Filters access by the ARN of the instance from which the request originated	ARN
<a href="#">ssm:SourceInstanceARN</a>	Filters access by verifying the Amazon Resource Name (ARN) of the AWS Systems Manager's managed instance from which the request is made. This key is not present when the request comes from the managed instance authenticated with an IAM role associated with EC2 instance profile	ARN

## Actions, resources, and condition keys for Amazon Message Gateway Service

Amazon Message Gateway Service (service prefix: `ssmmessages`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Message Gateway Service](#)

- [Resource types defined by Amazon Message Gateway Service](#)
- [Condition keys for Amazon Message Gateway Service](#)

## Actions defined by Amazon Message Gateway Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateControlChannel</a>	Grants permission to register a control channel for an instance to send control messages to Systems Manager service	Write		<a href="#">ssm:SourceInstanceARN</a> <a href="#">ec2:SourceInstanceARN</a>	
<a href="#">CreateDataChannel</a>	Grants permission to register a data channel for an instance to send data messages to Systems Manager service	Write			
<a href="#">OpenControlChannel</a>	Grants permission to open a websocket connection for a registered control channel stream from an instance to Systems Manager service	Write			
<a href="#">OpenDataChannel</a>	Grants permission to open a websocket connection for a registered data channel	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	stream from an instance to Systems Manager service				

## Resource types defined by Amazon Message Gateway Service

Amazon Message Gateway Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Message Gateway Service, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Message Gateway Service

Amazon Message Gateway Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">ec2:SourceInstanceARN</a>	Filters access by the ARN of the instance from which the request originated	ARN
<a href="#">ssm:SourceInstanceARN</a>	Filters access by verifying the Amazon Resource Name (ARN) of the AWS Systems Manager's managed instance from which the request is made. This key is not present when the request comes from the managed instance authenticated with an IAM role associated with EC2 instance profile	ARN

# Actions, resources, and condition keys for AWS Microservice Extractor for .NET

AWS Microservice Extractor for .NET (service prefix: `serviceextract`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Microservice Extractor for .NET](#)
- [Resource types defined by AWS Microservice Extractor for .NET](#)
- [Condition keys for AWS Microservice Extractor for .NET](#)

## Actions defined by AWS Microservice Extractor for .NET

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConfig</a> [permission only]	Grants permission to get required configuration for the AWS Microservice Extractor for .NET desktop client	Read			

## Resource types defined by AWS Microservice Extractor for .NET

AWS Microservice Extractor for .NET does not support specifying a resource ARN in the `Resource` element of an IAM policy statement. To allow access to AWS Microservice Extractor for .NET, specify `"Resource": "*" in your policy.`

## Condition keys for AWS Microservice Extractor for .NET

Microservice Extractor for .NET has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Migration Acceleration Program Credits

AWS Migration Acceleration Program Credits (service prefix: `mapcredits`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Migration Acceleration Program Credits](#)
- [Resource types defined by AWS Migration Acceleration Program Credits](#)
- [Condition keys for AWS Migration Acceleration Program Credits](#)

## Actions defined by AWS Migration Acceleration Program Credits

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssociatedPrograms</a> [permission only]	Grants permission to view the user's associated Migration Acceleration Program agreements	List	<a href="#">agreement</a> *		
<a href="#">ListQuarterCredits</a> [permission only]	Grants permission to view Migration Acceleration Program agreements credits associated with the user's payer account	List	<a href="#">agreement</a> *		
<a href="#">ListQuarterSpend</a> [permission only]	Grants permission to view Migration Acceleration Program agreements eligible spend associated with the user's payer account	List	<a href="#">agreement</a> *		

## Resource types defined by AWS Migration Acceleration Program Credits

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">agreement</a>	arn:\${Partition}:mapcredits:::\${Agreement}/\${AgreementId}	

## Condition keys for AWS Migration Acceleration Program Credits

MapCredits has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Migration Hub

AWS Migration Hub (service prefix: mgh) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Migration Hub](#)
- [Resource types defined by AWS Migration Hub](#)
- [Condition keys for AWS Migration Hub](#)

## Actions defined by AWS Migration Hub

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptConnection</a>	Grants permission to accept a connection	Write	<a href="#">ConnectionResource</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">AssociateAutomationUnitRole</a>	Grants permission to associate an IAM role to an automation unit	Write	<a href="#">AutomationUnitResource*</a>		
<a href="#">AssociateCreatedArtifact</a>	Grants permission to associate a given AWS artifact to a MigrationTask	Write	<a href="#">migrationTask*</a>		
<a href="#">AssociateDiscoverdResource</a>	Grants permission to associate a given ADS resource to a MigrationTask	Write	<a href="#">migrationTask*</a>		
<a href="#">AssociateSourceResource</a>	Grants permission to associate source resource	Write	<a href="#">migrationTask*</a>		
<a href="#">BatchAssociateIAMRoleWithConnection</a>	Grants permission to batch-associate IAM roles with a connection	Write	<a href="#">ConnectionResource*</a>		
<a href="#">BatchDisassociateIAMRoleFromConnection</a>	Grants permission to batch-disassociate IAM roles from a connection	Write	<a href="#">ConnectionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAutomationRun</a>	Grants permission to create an automation unit run	Write			
<a href="#">CreateAutomationUnit</a>	Grants permission to create an automation unit	Write			
<a href="#">CreateHomeRegionControl</a>	Grants permission to create a Migration Hub Home Region Control	Write			
<a href="#">CreateProgressUpdateStream</a>	Grants permission to create a ProgressUpdateStream	Write	<a href="#">progressUpdateStream*</a>		
<a href="#">DeleteAutomationRun</a>	Grants permission to delete an automation unit run	Write	<a href="#">AutomationRunResource*</a>		
<a href="#">DeleteAutomationUnit</a>	Grants permission to delete an automation unit	Write	<a href="#">AutomationUnitResource*</a>		
<a href="#">DeleteConnection</a>	Grants permission to delete a connection	Write	<a href="#">ConnectionResource*</a>		
<a href="#">DeleteHomeRegionControl</a>	Grants permission to delete a Migration Hub Home Region Control	Write			
<a href="#">DeleteProgressUpdateStream</a>	Grants permission to delete a ProgressUpdateStream	Write	<a href="#">progressUpdateStream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeApplicationState</a>	Grants permission to get an Application Discovery Service Application's state	Read			
<a href="#">DescribeAutomationRun</a>	Grants permission to describe an automation unit run	Read	<a href="#">AutomationRunResource*</a>		
<a href="#">DescribeAutomationUnit</a>	Grants permission to describe an automation unit	Read	<a href="#">AutomationUnitResource*</a>		
<a href="#">DescribeHomeRegionControls</a>	Grants permission to list Home Region Controls	List			
<a href="#">DescribeMigrationTask</a>	Grants permission to describe a MigrationTask	Read	<a href="#">migrationTask*</a>		
<a href="#">DisassociateAutomationUnitRole</a>	Grants permission to disassociate an IAM role from an automation unit	Write	<a href="#">AutomationUnitResource*</a>		
<a href="#">DisassociateCreatedArtifact</a>	Grants permission to disassociate a given AWS artifact from a MigrationTask	Write	<a href="#">migrationTask*</a>		
<a href="#">DisassociateDiscoveredResource</a>	Grants permission to disassociate a given ADS resource from a MigrationTask	Write	<a href="#">migrationTask*</a>		
<a href="#">DisassociateSourceResource</a>	Grants permission to diassociate source resource	Write	<a href="#">migrationTask*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConnection</a>	Grants permission to get a connection	Read	<a href="#">ConnectionResource</a> *		
<a href="#">GetHomeRegion</a>	Grants permission to get the Migration Hub Home Region	Read			
<a href="#">ImportMigrationTask</a>	Grants permission to import a MigrationTask	Write	<a href="#">migrationTask</a> *		
<a href="#">ListApplicationStates</a>	Grants permission to list Application statuses	List			
<a href="#">ListAutomationRuns</a>	Grants permission to list automation unit runs	List			
<a href="#">ListAutomationUnits</a>	Grants permission to list automation units	List			
<a href="#">ListConnectionRoles</a>	Grants permission to list connection roles	List	<a href="#">ConnectionResource</a> *		
<a href="#">ListConnections</a>	Grants permission to list connections	List			
<a href="#">ListCreatedArtifacts</a>	Grants permission to list associated created artifacts for a MigrationTask	List	<a href="#">migrationTask</a> *		
<a href="#">ListDiscoveredResources</a>	Grants permission to list associated ADS resources from MigrationTask	List	<a href="#">migrationTask</a> *		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMigrationTaskUpdates</a>	Grants permission to list migration tasks updates	List	<a href="#">migrationTask*</a>		
<a href="#">ListMigrationTasks</a>	Grants permission to list MigrationTasks	List			
<a href="#">ListProgressUpdateStreams</a>	Grants permission to to list ProgressUpdateStreams	List			
<a href="#">ListSourceResources</a>	Grants permission to list source resources	List	<a href="#">migrationTask*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	List			
<a href="#">NotifyApplicationState</a>	Grants permission to update an Application Discovery Service Application's state	Write			
<a href="#">NotifyMigrationTaskState</a>	Grants permission to notify latest MigrationTask state	Write	<a href="#">migrationTask*</a>		
<a href="#">PutResourceAttributes</a>	Grants permission to put ResourceAttributes	Write	<a href="#">migrationTask*</a>		
<a href="#">RejectConnection</a>	Grants permission to reject a connection	Write	<a href="#">ConnectionResource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging		<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Migration Hub

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">progressUpdateStream</a>	arn:\${Partition}:mgh:\${Region}:\${Account}:progressUpdateStream/\${Stream}	
<a href="#">migrationTask</a>	arn:\${Partition}:mgh:\${Region}:\${Account}:progressUpdateStream/\${Stream}/migrationTask/\${Task}	
<a href="#">AutomationRunResource</a>	arn:\${Partition}:mgh:\${Region}:\${Account}:automation-run/\${RunID}	<a href="#">mgh:AutomationRunResourceRunID</a>

Resource types	ARN	Condition keys
<a href="#">AutomationUnitResource</a>	arn:\${Partition}:mgh:\${Region}:\${Account}:automation-unit/\${AutomationUnitId}	<a href="#">mgh:AutomationUnitResourceAutomationUnitArn</a>
<a href="#">ConnectionResource</a>	arn:\${Partition}:mgh:\${Region}:\${Account}:\${ConnectionArn}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">mgh:ConnectionResourceConnectionArn</a>

## Condition keys for AWS Migration Hub

AWS Migration Hub defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString
<a href="#">mgh:AutomationRunResourceRunID</a>	AutomationRunResource resource runID identifier	String

Condition keys	Description	Type
<a href="#">mgh:AutomationUnitResourceAutomationUnitArn</a>	AutomationUnitResource resource automationUnitArn identifier	ARN
<a href="#">mgh:ConnectionResourceConnectionArn</a>	ConnectionResource resource connectionArn identifier	String

## Actions, resources, and condition keys for AWS Migration Hub Orchestrator

AWS Migration Hub Orchestrator (service prefix: `migrationhub-orchestrator`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Migration Hub Orchestrator](#)
- [Resource types defined by AWS Migration Hub Orchestrator](#)
- [Condition keys for AWS Migration Hub Orchestrator](#)

## Actions defined by AWS Migration Hub Orchestrator

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTemplate</a>	Grants permission to create a custom template	Write			
<a href="#">CreateWorkflow</a>	Grants permission to create a workflow based on the selected template	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkflowStep</a>	Grants permission to create a step under a workflow and a specific step group	Write	<a href="#">workflow*</a>		
<a href="#">CreateWorkflowStepGroup</a>	Grants permission to create a custom step group for a given workflow	Write	<a href="#">workflow*</a>		
<a href="#">DeleteTemplate</a>	Grants permission to delete a custom template	Write	<a href="#">template*</a>		
<a href="#">DeleteWorkflow</a>	Grants permission to a workflow	Write	<a href="#">workflow*</a>		
<a href="#">DeleteWorkflowStep</a>	Grants permission to delete a step from a specific step group under a workflow	Write	<a href="#">workflow*</a>		
<a href="#">DeleteWorkflowStepGroup</a>	Grants permission to delete a step group associated with a workflow	Write	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMessage</a>	Grants permission to the plugin to receive information from the service	Read			
<a href="#">GetTemplate</a>	Grants permission to get retrieve metadata for a Template	Read	<a href="#">template*</a>		
<a href="#">GetTemplateStep</a>	Grants permission to retrieve details of a step associated with a template and a step group	Read	<a href="#">template*</a>		
<a href="#">GetTemplateStepGroup</a>	Grants permission to retrieve metadata of a step group under a template	Read	<a href="#">template*</a>		
<a href="#">GetWorkflow</a>	Grants permission to retrieve metadata associated with a workflow	Read	<a href="#">workflow*</a>		
<a href="#">GetWorkflowStep</a>	Grants permission to get details of step associated with a workflow and a step group	Read	<a href="#">workflow*</a>		
<a href="#">GetWorkflowStepGroup</a>	Grants permission to get details of a step group associated with a workflow	Read	<a href="#">workflow*</a>		
<a href="#">ListPlugins</a>	Grants permission to get a list all registered Plugins	List			
<a href="#">ListTagsForResource</a>		Read	<a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to get a list of all the tags tied to a resource		<a href="#">workflow*</a>		
<a href="#">ListTemplateStepGroups</a>	Grants permission to lists step groups of a template	List	<a href="#">template*</a>		
<a href="#">ListTemplateSteps</a>	Grants permission to get a list of steps in a step group	List	<a href="#">template*</a>		
<a href="#">ListTemplates</a>	Grants permission to get a list of all Templates available to customer	List			
<a href="#">ListWorkflowStepGroups</a>	Grants permission to get list of step groups associated with a workflow	List	<a href="#">workflow*</a>		
<a href="#">ListWorkflowSteps</a>	Grants permission to get a list of steps within step group associated with a workflow	List	<a href="#">workflow*</a>		
<a href="#">ListWorkflows</a>	Grants permission to list all workflows	List			
<a href="#">RegisterPlugin</a>	Grants permission to register the plugin to receive an ID and to start receiving messages from the service	Write			
<a href="#">RetryWorkflowStep</a>	Grants permission to retry a failed step within a workflow	Write	<a href="#">workflow*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendMessage</a>	Grants permission to the plugin to send information to the service	Write			
<a href="#">StartWorkflow</a>	Grants permission to start a workflow or resume a stopped workflow	Write	<a href="#">workflow*</a>		
<a href="#">StopWorkflow</a>	Grants permission to stop a workflow	Write	<a href="#">workflow*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">template</a>		
			<a href="#">workflow</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">template</a>		
			<a href="#">workflow</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateTemplate</a>	Grants permission to update a custom template	Write	<a href="#">template*</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWorkflow</a>	Grants permission to update the metadata associated with the workflow	Write	<a href="#">workflow*</a>		
<a href="#">UpdateWorkflowStep</a>	Grants permission to update metadata and status of a custom step within a workflow	Write	<a href="#">workflow*</a>		
<a href="#">UpdateWorkflowStepGroup</a>	Grants permission to update metadata associated with a step group in a given workflow	Write	<a href="#">workflow*</a>		

## Resource types defined by AWS Migration Hub Orchestrator

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">workflow</a>	arn:\${Partition}:migrationhub-orchestrator:\${Region}:\${Account}:workflow/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">template</a>	arn:\${Partition}:migrationhub-orchestrator:\${Region}:\${Account}:template/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Migration Hub Orchestrator

AWS Migration Hub Orchestrator defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Migration Hub Refactor Spaces

AWS Migration Hub Refactor Spaces (service prefix: `refactor-spaces`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Migration Hub Refactor Spaces](#)

- [Resource types defined by AWS Migration Hub Refactor Spaces](#)
- [Condition keys for AWS Migration Hub Refactor Spaces](#)

## Actions defined by AWS Migration Hub Refactor Spaces

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create an application within an environment	Write		<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEnvironment</a>	Grants permission to create an environment	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRoute</a>	Grants permission to create a route within an application	Write		<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:RouteCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">refactor-spaces:SourcePath</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateService</a>	Grants permission to create a service within an application	Write		<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete an application from an environment	Write	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByIds</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEnvironment</a>	Grants permission to delete an environment	Write	<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy	Write			
<a href="#">DeleteRoute</a>	Grants permission to delete a route from an application	Write	<a href="#">route*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:RouteCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">refactor-spaces:SourcePath</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteService</a>	Grants permission to delete a service from an application	Write	<a href="#">service*</a>	<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetApplication</a>	Grants permission to get more information about an application	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEnvironment</a>	Grants permission to get more information for an environment	Read	<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetResourcePolicy</a>	Grants permission to get the details about a resource policy	Read			
<a href="#">GetRoute</a>	Grants permission to get more information about a route	Read	<a href="#">route*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:RouteCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">refactor-spaces:SourcePath</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetService</a>	Grants permission to get more information about a service	Read	<a href="#">service*</a>	<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListApplications</a>	Grants permission to list all the applications in an environment	Read	<a href="#">application*</a>		
<a href="#">ListEnvironmentVpcs</a>	Grants permission to list all the VPCs for the environment	Read	<a href="#">environment*</a>		
<a href="#">ListEnvironments</a>	Grants permission to list all environments	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRoutes</a>	Grants permission to list all the routes in an application	Read	<a href="#">route*</a>		
<a href="#">ListServices</a>	Grants permission to list all the services in an environment	Read	<a href="#">environment*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list all the tags for a given resource	Read			
<a href="#">PutResourcePolicy</a>	Grants permission to add a resource policy	Write			
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">application</a>		
			<a href="#">environment</a>		
			<a href="#">route</a>		
			<a href="#">service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>refactor-spaces:ApplicationCreatedByAccount</u></a> <a href="#"><u>refactor-spaces:ServiceCreatedByAccount</u></a> <a href="#"><u>refactor-spaces:RouteCreatedByAccount</u></a> <a href="#"><u>refactor-spaces:CreatedByAccountIds</u></a> <a href="#"><u>refactor-spaces:SourcePath</u></a> <a href="#"><u>aws:TagKeys</u></a> <a href="#"><u>aws:RequestTag/</u></a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">application</a> <a href="#">environment</a> <a href="#">route</a> <a href="#">service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:RouteCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">refactor-spaces:SourcePath</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateRoute</a>	Grants permission to update a route from an application	Write	<a href="#">route*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">refactor-spaces:ApplicationCreatedByAccount</a> <a href="#">refactor-spaces:ServiceCreatedByAccount</a> <a href="#">refactor-spaces:RouteCreatedByAccount</a> <a href="#">refactor-spaces:CreatedByAccountIds</a> <a href="#">refactor-spaces:SourcePath</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Migration Hub Refactor Spaces

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:refactor-spaces:\${Region}:\${Account}:environment/\${EnvironmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application</a>	arn:\${Partition}:refactor-spaces:\${Region}:\${Account}:environment/\${EnvironmentId}/application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">refactor-spaces:ApplicationCreatedByAccount</a>  <a href="#">refactor-spaces:CreatedByAccountIds</a>
<a href="#">service</a>	arn:\${Partition}:refactor-spaces:\${Region}:\${Account}:environment/\${EnvironmentId}/application/\${ApplicationId}/service/\${ServiceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">refactor-spaces:ApplicationCreatedByAccount</a>  <a href="#">refactor-spaces:CreatedByAccountIds</a>  <a href="#">refactor-spaces:ServiceCreatedByAccount</a>

Resource types	ARN	Condition keys
<a href="#">route</a>	arn:\${Partition}:refactor-spaces:\${Region}:\${Account}:environment/\${EnvironmentId}/application/\${ApplicationId}/route/\${RouteId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">refactor-spaces:ApplicationCreatedByAccount</a>  <a href="#">refactor-spaces:CreatedByAccountIds</a>  <a href="#">refactor-spaces:RouteCreatedByAccount</a>  <a href="#">refactor-spaces:ServiceCreatedByAccount</a>  <a href="#">refactor-spaces:SourcePath</a>

## Condition keys for AWS Migration Hub Refactor Spaces

AWS Migration Hub Refactor Spaces defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">refactor-spaces:ApplicationCreatedByAccount</a>	Filters access by restricting the action to only those accounts that created the application within an environment	String
<a href="#">refactor-spaces:CreatedByAccountIds</a>	Filters access by the accounts that created the resource	ArrayOfString
<a href="#">refactor-spaces:RouteCreatedByAccount</a>	Filters access by restricting the action to only those accounts that created the route within an application	String
<a href="#">refactor-spaces:ServiceCreatedByAccount</a>	Filters access by restricting the action to only those accounts that created the service within an application	String
<a href="#">refactor-spaces:SourcePath</a>	Filters access by the path of the route	String

# Actions, resources, and condition keys for AWS Migration Hub Strategy Recommendations

AWS Migration Hub Strategy Recommendations (service prefix: migrationhub-strategy) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Migration Hub Strategy Recommendations](#)
- [Resource types defined by AWS Migration Hub Strategy Recommendations](#)
- [Condition keys for AWS Migration Hub Strategy Recommendations](#)

## Actions defined by AWS Migration Hub Strategy Recommendations

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit



resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAntiPattern</a>	Grants permission to get details of each anti pattern that collector should look at in a customer's environment	Read			
<a href="#">GetApplicationComponentDetails</a>	Grants permission to get details of an application	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApplicationComponentStrategies</a>	Grants permission to get a list of all recommended strategies and tools for an application running in a server	Read			
<a href="#">GetAssessment</a>	Grants permission to retrieve status of an on-going assessment	Read			
<a href="#">GetImportFileTask</a>	Grants permission to get details of a specific import task	Read			
<a href="#">GetLatestAssessmentId</a>	Grants permission to retrieve the latest assessment id	Read			
<a href="#">GetMessage</a>	Grants permission to the collector to receive information from the service	Read			
<a href="#">GetPortfolioPreferences</a>	Grants permission to retrieve customer migration/Modernization preferences	Read			
<a href="#">GetPortfolioSummary</a>	Grants permission to retrieve overall summary (number-of servers to rehost etc as well as overall number of anti patterns)	Read			
<a href="#">GetRecommendationReportDetails</a>	Grants permission to retrieve detailed information about a recommendation report	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetServerDetails</a>	Grants permission to get info about a specific server	Read			
<a href="#">GetServerStrategies</a>	Grants permission to get recommended strategies and tools for a specific server	Read			
<a href="#">ListAnalyzableServers</a>	Grants permission to get a list of all analyzable servers in a customer's vcenter environment	List			
<a href="#">ListAntiPatterns</a>	Grants permission to get a list of all anti patterns that collector should look for in a customer's environment	List			
<a href="#">ListApplicationComponents</a>	Grants permission to get a list of all applications running on servers on customer's servers	List			
<a href="#">ListCollectors</a>	Grants permission to get a list of all collectors installed by the customer	List			
<a href="#">ListImportFileTask</a>	Grants permission to get list of all imports performed by the customer	List			
<a href="#">ListJarArtifacts</a>	Grants permission to get a list of binaries that collector should assess	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListServers</a>	Grants permission to get a list of all servers in a customer's environment	List			
<a href="#">PutLogData</a>	Grants permission to the collector to send logs to the service	Write			
<a href="#">PutMetricData</a>	Grants permission to the collector to send metrics to the service	Write			
<a href="#">PutPortfolioPreferences</a>	Grants permission to save customer's Migration/Modernization preferences	Write			
<a href="#">RegisterCollector</a>	Grants permission to register the collector to receive an ID and to start receiving messages from the service	Write			
<a href="#">SendMessage</a>	Grants permission to the collector to send information to the service	Write			
<a href="#">StartAssessment</a>	Grants permission to start assessment in a customer's environment (collect data from all servers and provide recommendations)	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartImportFileTask</a>	Grants permission to start importing data from a file provided by customer	Write			
<a href="#">StartRecommendationReportGeneration</a>	Grants permission to start generating a recommendation report	Write			
<a href="#">StopAssessment</a>	Grants permission to stop an on-going assessment	Write			
<a href="#">UpdateApplicationComponentConfig</a>	Grants permission to update details for an application	Write			
<a href="#">UpdateCollectorConfiguration</a>	Grants permission to the collector to send configuration information to the service	Write			
<a href="#">UpdateServerConfig</a>	Grants permission to update info on a server along with the recommended strategy	Write			

## Resource types defined by AWS Migration Hub Strategy Recommendations

AWS Migration Hub Strategy Recommendations does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Migration Hub Strategy Recommendations, specify "Resource": "\*" in your policy.

## Condition keys for AWS Migration Hub Strategy Recommendations

Migration Hub Strategy Recommendations has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Mobile Analytics

Amazon Mobile Analytics (service prefix: `mobileanalytics`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Mobile Analytics](#)
- [Resource types defined by Amazon Mobile Analytics](#)
- [Condition keys for Amazon Mobile Analytics](#)

## Actions defined by Amazon Mobile Analytics

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
GetFinancialReports	Grant access to financial metrics for an app	Read			
GetReports	Grant access to standard metrics for an app	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutEvents</a>	The PutEvents operation records one or more events	Write			

## Resource types defined by Amazon Mobile Analytics

Amazon Mobile Analytics does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Mobile Analytics, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Mobile Analytics

Mobile Analytics has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Monitron

Amazon Monitron (service prefix: `monitron`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Monitron](#)
- [Resource types defined by Amazon Monitron](#)
- [Condition keys for Amazon Monitron](#)



## Actions defined by Amazon Monitron

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateProjectAdminUser</a> [permission only]	Grants permission to associate a user with the project as an administrator	Permissions management	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:AssociateProfile  sso:GetManagedApplicationInstance  sso:GetProfile  sso:ListDirectoryAssociations  sso:ListProfileAssociations  sso:ListProfiles

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProject</a> [permission only]	Grants permission to create a project	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole kms:CreateGrant sso:CreateManagedApplicationInstance sso:DeleteManagedApplicationInstance sso:DescribeRegisteredRegions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProjectUserAssociation</a> [permission only]	Grants permission to associate a user with the project	Permissions management	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:AssociateProfile  sso:GetManagedApplicationInstance  sso:GetProfile  sso:ListDirectoryAssociations  sso:ListProfileAssociations  sso:ListProfiles

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUserAccessRoleAssociation</a> [permission only]	Grants permission to associate an access role with the user	Permissions management	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:GetManagedApplicationInstance  sso:GetProfile  sso:ListDirectoryAssociations  sso:ListProfileAssociations  sso:ListProfiles
<a href="#">DeleteProject</a> [permission only]	Grants permission to delete a project	Write	<a href="#">project*</a>		sso:DeleteManagedApplicationInstance

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProjectUserAssociation</a> [permission only]	Grants permission to disassociate a user from the project	Permissions management	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:DisassociateProfile  sso:GetManagedApplicationInstance  sso:GetProfile  sso:ListDirectoryAssociations  sso:ListProfiles
<a href="#">DeleteUserRoleAssociation</a> [permission only]	Grants permission to disassociate an access role from the user	Permissions management	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateProjectAdminUser</a> [permission only]	Grants permission to disassociate an administrator from the project	Permissions management	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:DisassociateProfile  sso:GetManagedApplicationInstance  sso:GetProfile  sso:ListDirectoryAssociations  sso:ListProfiles
<a href="#">GetProject</a> [permission only]	Grants permission to get information about a project	Read	<a href="#">project*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetProjectAdminUser</a> [permission only]	Grants permission to describe an administrator who is associated with the project	Read	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:GetManagedApplicationInstance  sso:ListProfileAssociations
<a href="#">ListProjectAdminUsers</a> [permission only]	Grants permission to list all administrators associated with the project	Permissions management	<a href="#">project*</a>		sso-directory:DescribeUsers  sso:GetManagedApplicationInstance



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProjectUserAssociations</a> [permission only]	Grants permission to list all users associated with the project	List	<a href="#">project*</a>		sso:GetManagedApplicationInstance  sso:GetProfile  sso:ListDirectoryAssociations  sso:ListProfileAssociations  sso:ListProfiles
<a href="#">ListProjects</a> [permission only]	Grants permission to list all projects	List			
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to list all tags for a resource	Read	<a href="#">project</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListUserAccessRoleAssociations</a> [permission only]	Grants permission to list all access roles associated with the user	List	<a href="#">project*</a>		
<a href="#">TagResource</a> [permission only]	Grants permission to tag a resource	Tagging	<a href="#">project</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to untag a resource	Tagging	<a href="#">project</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateProject</a> [permission only]	Grants permission to update a project	Write	<a href="#">project*</a>		

## Resource types defined by Amazon Monitron

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">project</a>	arn:\${Partition}:monitron:\${Region}: \${Account}:project/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Monitron

Amazon Monitron defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon MQ

Amazon MQ (service prefix: mq) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon MQ](#)
- [Resource types defined by Amazon MQ](#)
- [Condition keys for Amazon MQ](#)

## Actions defined by Amazon MQ

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBroker</a>	Grants permission to create a broker	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:CreateSecurityGroup ec2:CreateVpcEndpoint ec2:DescribeInternal

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					etGateways ec2:DescribeNetworkInterfacePermissions ec2:DescribeNetworkInterfaces ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcEndpoints ec2:DescribeVpcs ec2:ModifyNetworkInterfaceAttribute

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:CreateServiceLinkedRole  route53:AssociateVPCWithHostedZone
<a href="#">CreateConfiguration</a>	Grants permission to create a new configuration for the specified configuration name. Amazon MQ uses the default configuration (the engine type and engine version)	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateReplicaBroker</a> [permission only]	Grants permission to create a replica broker	Write	<a href="#">brokers*</a>		
<a href="#">CreateTags</a>	Grants permission to create tags	Tagging	<a href="#">brokers</a>		
			<a href="#">configurations</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUser</a>	Grants permission to create an ActiveMQ user	Write	<a href="#">brokers*</a>		
<a href="#">DeleteBroker</a>	Grants permission to delete a broker	Write	<a href="#">brokers*</a>		ec2:DeleteNetworkInterface ec2:DeleteNetworkInterfacePermission ec2:DeleteVpcEndpoints ec2:DetachNetworkInterface
<a href="#">DeleteConfiguration</a>	Grants permission to delete a configuration	Write	<a href="#">configurations*</a>		
<a href="#">DeleteTags</a>	Grants permission to delete tags	Tagging	<a href="#">brokers</a>		
			<a href="#">configurations</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteUser</a>	Grants permission to delete an ActiveMQ user	Write	<a href="#">brokers*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBroker</a>	Grants permission to return information about the specified broker	Read	<a href="#">brokers*</a>		
<a href="#">DescribeBrokerEngineTypes</a>	Grants permission to return information about broker engines	Read			
<a href="#">DescribeBrokerInstanceOptions</a>	Grants permission to return information about the broker instance options	Read			
<a href="#">DescribeConfiguration</a>	Grants permission to return information about the specified configuration	Read	<a href="#">configurations*</a>		
<a href="#">DescribeConfigurationRevision</a>	Grants permission to return the specified configuration revision for the specified configuration	Read	<a href="#">configurations*</a>		
<a href="#">DescribeUser</a>	Grants permission to return information about an ActiveMQ user	Read	<a href="#">brokers*</a>		
<a href="#">ListBrokers</a>	Grants permission to return a list of all brokers	List			
<a href="#">ListConfigurationRevisions</a>	Grants permission to return a list of all existing revisions for the specified configuration	List	<a href="#">configurations*</a>		
<a href="#">ListConfigurations</a>	Grants permission to return a list of all configurations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTags</a>	Grants permission to return a list of tags	List	<a href="#">brokers</a>		
			<a href="#">configurations</a>		
<a href="#">ListUsers</a>	Grants permission to return a list of all ActiveMQ users	List	<a href="#">brokers*</a>		
<a href="#">Promote</a>	Grants permission to promote a broker	Write	<a href="#">brokers*</a>		
<a href="#">RebootBroker</a>	Grants permission to reboot a broker	Write	<a href="#">brokers*</a>		
<a href="#">UpdateBroker</a>	Grants permission to add a pending configuration change to a broker	Write	<a href="#">brokers*</a>		
<a href="#">UpdateBrokerAccessConfiguration</a> [permission only]	Grants permission to update RabbitMQ broker authentication and authorization configuration	Write	<a href="#">brokers*</a>		
<a href="#">UpdateConfiguration</a>	Grants permission to update the specified configuration	Write	<a href="#">configurations*</a>		
<a href="#">UpdateUser</a>	Grants permission to update the information for an ActiveMQ user	Write	<a href="#">brokers*</a>		

## Resource types defined by Amazon MQ

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">brokers</a>	arn:\${Partition}:mq:\${Region}:\${Account}:broker:\${BrokerName}:\${BrokerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configurations</a>	arn:\${Partition}:mq:\${Region}:\${Account}:configuration:\${ConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon MQ

Amazon MQ defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Multi-party approval

Multi-party approval (service prefix: mpa) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Multi-party approval](#)
- [Resource types defined by Multi-party approval](#)
- [Condition keys for Multi-party approval](#)

## Actions defined by Multi-party approval

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelSession</a>	Grants permission to cancel an approval session	Write	<a href="#">session*</a>	<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">mpa:RequestedOperation</a> <a href="#">mpa:ProtectedResourceAccount</a>	
<a href="#">CreateApprovalTeam</a>	Grants permission to create an approval team	Write	<a href="#">approval-team*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIdentitySource</a>	Grants permission to create an identity source	Write	<a href="#">identity-source*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteIdentitySource</a>	Grants permission to delete an identity source	Write	<a href="#">identity-source*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteInactiveApprovalTeamVersion</a>	Grants permission to delete an inactive approval team	Write	<a href="#">approval-team*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete a resource policy	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApprovalTeam</a>	Grants permission to retrieve details for an approval team	Read	<a href="#">approval-team*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetIdentitySource</a>	Grants permission to retrieve details for an identity source	Read	<a href="#">identity-source*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetPolicyVersion</a>	Grants permission to retrieve details for a policy	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve details for a specific resource	Read			
<a href="#">GetSession</a>	Grants permission to retrieve details for an approval session	Read	<a href="#">session*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">mpa:RequestedOperation</a> <a href="#">mpa:ProtectedResourceAccount</a>	
<a href="#">ListApprovalTeams</a>	Grants permission to list approval teams	List			
<a href="#">ListIdentitySources</a>	Grants permission to list identity sources	List			
<a href="#">ListPolicies</a>	Grants permission to list policies	List			
<a href="#">ListPolicyVersions</a>	Grants permission to list the versions for policies	List			
<a href="#">ListResourcePolicies</a>	Grants permission to list policies for a resource	List			
<a href="#">ListSessions</a>	Grants permission to list approval sessions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to create or update policies for a resource	Permissions management			
<a href="#">StartActiveApprovalTeamDeletion</a>	Grants permission to start the deletion process for an active approval team	Write	<a href="#">approval-team*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartApprovalTeamBaseline</a>	Grants permission to start a baseline for an active approval team	Write	<a href="#">approval-team*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartSession</a> [permission only]	Grants permission to start an approval session	Write	<a href="#">session*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">mpa:RequestedOperation</a>  <a href="#">mpa:ProtectedResourceAccount</a>	
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateApprovalTeam</a>	Grants permission to update approval team	Write	<a href="#">approval-team*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Multi-party approval

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">approval-team</a>	arn:\${Partition}:mpa:\${Region}:\${Account}:approval-team/\${ApprovalTeamId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">identity-source</a>	arn:\${Partition}:mpa:\${Region}:\${Account}:identity-source/\${IdentitySourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">session</a>	arn:\${Partition}:mpa:\${Region}:\${Account}:session/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Multi-party approval

Multi-party approval defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">mpa:ProtectedResourceAccount</a>	Filters access by the account that owns the resource that is the target of the operation that requires approval	String
<a href="#">mpa:RequestedOperation</a>	Filters access by a requested operation that requires team approval before it can be executed	String

## Actions, resources, and condition keys for AWS MWAA Serverless

AWS MWAA Serverless (service prefix: `airflow-serverless`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS MWAA Serverless](#)
- [Resource types defined by AWS MWAA Serverless](#)
- [Condition keys for AWS MWAA Serverless](#)

### Actions defined by AWS MWAA Serverless

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkflow</a>	Grants permission to create a new workflow	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteWorkflow</a>	Grants permission to delete a workflow	Write	<a href="#">Workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTaskInstance</a>	Grants permission to retrieve the task details for a workflow run	Read	<a href="#">Workflow*</a>		
<a href="#">GetWorkflow</a>	Grants permission to retrieve details about a workflow	Read	<a href="#">Workflow*</a>		
<a href="#">GetWorkflowRun</a>	Grants permission to retrieve details about a workflow run	Read	<a href="#">Workflow*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	Read	<a href="#">Workflow*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTaskInstances</a>	Grants permission to list the tasks for a workflow run	List	<a href="#">Workflow*</a>		
<a href="#">ListWorkflowRuns</a>	Grants permission to list the workflow runs of a workflow	List	<a href="#">Workflow*</a>		
<a href="#">ListWorkflowVersions</a>	Grants permission to list the workflow versions	List	<a href="#">Workflow*</a>		
<a href="#">ListWorkflows</a>	Grants permission to list the workflows	List			
<a href="#">StartWorkflowRun</a>	Grants permission to start an on-demand workflow run for the workflow	Write	<a href="#">Workflow*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopWorkflowRun</a>	Grants permission to stop a workflow run	Write	<a href="#">Workflow*</a>		
<a href="#">TagResource</a>	Grants permission to tag the specified resource	Tagging	<a href="#">Workflow*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag the specified resource	Tagging	<a href="#">Workflow*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateWorkflow</a>	Grants permission to update an existing workflow	Write	<a href="#">Workflow*</a>		

## Resource types defined by AWS MWAA Serverless

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Workflow</a>	arn:\${Partition}:airflow-serverless:\${Region}:\${Account}:workflow/\${WorkflowId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS MWAA Serverless

AWS MWAA Serverless defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs that are attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Neptune

Amazon Neptune (service prefix: `neptune-db`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Neptune](#)
- [Resource types defined by Amazon Neptune](#)
- [Condition keys for Amazon Neptune](#)

### Actions defined by Amazon Neptune

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelLoaderJob</a>	Grants permission to cancel a loader job	Write	<a href="#">database*</a>		
<a href="#">CancelMLDataProcessingJob</a>	Grants permission to cancel an ML data processing job	Write	<a href="#">database*</a>		
<a href="#">CancelMLModelTrainingJob</a>	Grants permission to cancel an ML model training job	Write	<a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelMLModelTransformJob</a>	Grants permission to cancel an ML model transform job	Write	<a href="#">database*</a>		
<a href="#">CancelQuery</a>	Grants permission to cancel a query	Write	<a href="#">database*</a>		
<a href="#">CreateMLEndpoint</a>	Grants permission to create an ML endpoint	Write	<a href="#">database*</a>		
<a href="#">DeleteDataViaQuery</a>	Grants permission to run delete data via query APIs on database	Write	<a href="#">database*</a>	<a href="#">neptune-d b:QueryLanguage</a>	
<a href="#">DeleteMLEndpoint</a>	Grants permission to delete an ML endpoint	Write	<a href="#">database*</a>		
<a href="#">DeleteStatistics</a>	Grants permission to delete all the statistics in the database	Write	<a href="#">database*</a>		
<a href="#">GetEngineStatus</a>	Grants permission to check the status of the Neptune engine	Read	<a href="#">database*</a>		
<a href="#">GetGraphSummary</a>	Grants permission to get the graph summary from the database	Read	<a href="#">database*</a>		
<a href="#">GetLoaderJobStatus</a>	Grants permission to check the status of a loader job	Read	<a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMLDataProcessingJobStatus</a>	Grants permission to check the status of an ML data processing job	Read	<a href="#">database*</a>		
<a href="#">GetMLEndpointStatus</a>	Grants permission to check the status of an ML endpoint	Read	<a href="#">database*</a>		
<a href="#">GetMLModelTrainingJobStatus</a>	Grants permission to check the status of an ML model training job	Read	<a href="#">database*</a>		
<a href="#">GetMLModelTransformJobStatus</a>	Grants permission to check the status of an ML model transform job	Read	<a href="#">database*</a>		
<a href="#">GetQueryStatus</a>	Grants permission to check the status of all active queries	Read	<a href="#">database*</a>	<a href="#">neptune-d b:QueryLanguage</a>	
<a href="#">GetStatisticsStatus</a>	Grants permission to check the status of statistics of the database	Read	<a href="#">database*</a>		
<a href="#">GetStreamRecords</a>	Grants permission to fetch stream records from Neptune	Read	<a href="#">database*</a>	<a href="#">neptune-d b:QueryLanguage</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListLoaderJobs</a>	Grants permission to list all the loader jobs	List	<a href="#">database*</a>		
<a href="#">ListMLDataProcessingJobs</a>	Grants permission to list all the ML data processing jobs	List	<a href="#">database*</a>		
<a href="#">ListMLEndpoints</a>	Grants permission to list all the ML endpoints	List	<a href="#">database*</a>		
<a href="#">ListMLModelTrainingJobs</a>	Grants permission to list all the ML model training jobs	List	<a href="#">database*</a>		
<a href="#">ListMLModelTransformJobs</a>	Grants permission to list all the ML model transform jobs	List	<a href="#">database*</a>		
<a href="#">ManageStatistics</a>	Grants permission to manage statistics in the database	Write	<a href="#">database*</a>		
<a href="#">ReadDataViaQuery</a>	Grants permission to run read data via query APIs on database	Read	<a href="#">database*</a>	<a href="#">neptune-d b:QueryLanguage</a>	
<a href="#">ResetDatabase</a>	Grants permission to get the token needed for reset and resets the Neptune database	Write	<a href="#">database*</a>		
<a href="#">StartLoaderJob</a>	Grants permission to start a loader job	Write	<a href="#">database*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMLDataProcessingJob</a>	Grants permission to start an ML data processing job	Write	<a href="#">database*</a>		
<a href="#">StartMLModelTrainingJob</a>	Grants permission to start an ML model training job	Write	<a href="#">database*</a>		
<a href="#">StartMLModelTransformJob</a>	Grants permission to start an ML model transform job	Write	<a href="#">database*</a>		
<a href="#">WriteDataViaQuery</a>	Grants permission to run write data via query APIs on database	Write	<a href="#">database*</a>	<a href="#">neptune-d b:QueryLanguage</a>	
<a href="#">connect</a>	Grants permission to all data-access actions in engine versions prior to 1.2.0.0	Write	<a href="#">database*</a>		

## Resource types defined by Amazon Neptune

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).



Resource types	ARN	Condition keys
<a href="#">database</a>	arn:\${Partition}:neptune-db:\${Region}:\${Account}:\${ClusterResourceId}/*	

## Condition keys for Amazon Neptune

Amazon Neptune defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">neptune-db:QueryLanguage</a>	Filters access by graph model	String

## Actions, resources, and condition keys for Amazon Neptune Analytics

Amazon Neptune Analytics (service prefix: `neptune-graph`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Neptune Analytics](#)
- [Resource types defined by Amazon Neptune Analytics](#)

- [Condition keys for Amazon Neptune Analytics](#)

## Actions defined by Amazon Neptune Analytics

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

**Note**

All IAM actions except 'ReadDataViaQuery', 'WriteDataViaQuery' and 'DeleteDataViaQuery' have a corresponding API operation

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelExportTask</a>	Grants permission to cancel an ongoing export task	Write	<a href="#">export-task*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CancelImportTask</a>	Grants permission to cancel an ongoing import task	Write	<a href="#">import-task*</a>		
<a href="#">CancelQuery</a>	Grants permission to cancel a query	Write	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGraph</a>	Grants permission to create a new graph	Write	<a href="#">graph*</a>		iam:CreateServiceLinkedRole kms:CreateGrant kms:Decrypt kms:DescribeKey
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">neptune-graph:PublicConnectivity</a>	
<a href="#">CreateGraphSnapshot</a>	Grants permission to create a new snapshot from an existing graph	Write	<a href="#">graph*</a> <a href="#">graph-snapshot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateGraphUsingImportTask</a>	Grants permission to create a new graph while importing data into the new graph	Write	<a href="#">graph*</a>          <a href="#">import-task*</a>		iam:CreateServiceLinkedRole  iam:PassRole  kms:CreateGrant  kms:Decrypt  kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">neptune-graph:PublicConnectivity</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePrivateGraphEndpoint</a>	Grants permission to create a new private graph endpoint to access the graph from within a vpc	Write	<a href="#">graph*</a>		ec2:CreateVpcEndpoint ec2:DescribeAvailabilityZones ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs ec2:ModifyVpcEndpoint route53:AssociateV

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					PCWithHostedZone
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDataViaQuery</a>	Grants permission to delete data via query APIs on the graph	Write	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteGraph</a>	Grants permission to delete a graph	Write	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteGraphSnapshot</a>	Grants permission to delete a snapshot	Write	<a href="#">graph-snapshot*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePrivateGraphEndpoint</a>	Grants permission to delete a private graph endpoint of a graph	Write	<a href="#">graph*</a>		ec2:DeleteVpcEndpoints ec2:DescribeAvailabilityZones ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcAttributes ec2:DescribeVpcEndpoints ec2:DescribeVpcs ec2:ModifyVpcEndpoint route53:Disassociate

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					teVPCFromHostedZone
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEngineStatus</a>	Grants permission to get the engine status of the graph	Read	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExportTask</a>	Grants permission to get details about an export task	Read	<a href="#">export-task*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetGraph</a>	Grants permission to get details about a graph	Read	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetGraphSnapshot</a>	Grants permission to get details about a snapshot	Read	<a href="#">graph-snapshot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetGraphSummary</a>	Grants permission to get the summary for the data in the graph	Read	<a href="#">graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetImportTask</a>	Grants permission to get details about an import task	Read	<a href="#">import-task*</a>		
<a href="#">GetPrivateGraphEndpoint</a>	Grants permission to get details about a private graph endpoint of a graph	Read	<a href="#">graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetQueryStatus</a>	Grants permission to check the status of a given query	Read	<a href="#">graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetStatisticsStatus</a>	Grants permission to get the statistics for the data in the graph	Read	<a href="#">graph*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListExportTasks</a>	Grants permission to list the export tasks in your account	Read	<a href="#">export-task*</a>		
<a href="#">ListGraphSnapshots</a>	Grants permission to list the snapshots in your account	Read	<a href="#">graph-snapshot*</a>		
<a href="#">ListGraphs</a>	Grants permission to list the graphs in your account	Read	<a href="#">graph*</a>		
<a href="#">ListImportTasks</a>	Grants permission to list the import tasks in your account	Read	<a href="#">import-task*</a>		
<a href="#">ListPrivateGraphEndpoints</a>	Grants permission to list the private graph endpoints for a given graph	Read	<a href="#">graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListQueries</a>	Grants permission to check the status of all active queries	Read	<a href="#">graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a>		Read	<a href="#">graph</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to lists tag for a Neptune Analytics resource		<a href="#">graph-snapshot</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ReadDataViaQuery</a>	Grants permission to read data via query APIs on the graph	Read	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ResetGraph</a>	Grants permission to reset a graph which deletes all data within the graph	Write	<a href="#">graph*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RestoreGraphFromSnapshot</a>	Grants permission to create a new graph from an existing snapshot	Write	<a href="#">graph*</a>		kms:CreateGrant kms:Decrypt kms:DescribeKey
			<a href="#">graph-snapshot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">neptune-graph:PublicConnectivity</a>	
<a href="#">StartExportTask</a>	Grants permission to export data from an existing graph	Write	<a href="#">export-task*</a> <a href="#">graph*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">StartGraph</a>	Grants permission to start a graph	Write	<a href="#">graph*</a>		kms:Decrypt  kms:DescribeKey
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartImportTask</a>	Grants permission to import data into an existing graph	Write	<a href="#">graph*</a>		iam:PassRole
			<a href="#">import-task*</a>		
<a href="#">StopGraph</a>	Grants permission to stop a graph	Write	<a href="#">graph*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a Neptune Analytics resource	Tagging	<a href="#">graph</a>		
			<a href="#">graph-snapshot</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a Neptune Analytics resource	Tagging	<a href="#">graph</a>		
			<a href="#">graph-snapshot</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateGraph</a>	Grants permission to modify a graph	Write	<a href="#">graph*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">neptune-graph:PublicConnectivity</a>	
<a href="#">WriteDataViaQuery</a>	Grants permission to write data via query APIs on the graph	Write	<a href="#">graph*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Neptune Analytics

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">graph</a>	arn:\${Partition}:neptune-graph:\${Region}:\${Account}:graph/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">graph-snapshot</a>	arn:\${Partition}:neptune-graph:\${Region}:\${Account}:graph-snapshot/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">import-task</a>	arn:\${Partition}:neptune-graph:\${Region}:\${Account}:import-task/\${ResourceId}	
<a href="#">export-task</a>	arn:\${Partition}:neptune-graph:\${Region}:\${Account}:export-task/\${ResourceId}	

## Condition keys for Amazon Neptune Analytics

Amazon Neptune Analytics defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

Condition keys	Description	Type
<a href="#">neptune-graph:PublicConnectivity</a>	Filters access by the value of the public connectivity parameter provided in the request or its default value, if unspecified. All access to graphs is IAM authenticated	Bool

## Actions, resources, and condition keys for AWS Network Firewall

AWS Network Firewall (service prefix: `network-firewall`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Network Firewall](#)
- [Resource types defined by AWS Network Firewall](#)
- [Condition keys for AWS Network Firewall](#)

## Actions defined by AWS Network Firewall

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptNet</a> <a href="#">workFirewall</a>	Grants permission to accept pending Network Firewall	Write	<a href="#">Firewall*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">allTransitGatewayAttachment</a>	attachments on a transit gateway				
<a href="#">AssociateAvailabilityZones</a>	Grants permission to associate availability zones to a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">AssociateFirewallPolicy</a>	Grants permission to create an association between a firewall policy and a firewall	Write	<a href="#">Firewall*</a> <a href="#">FirewallPolicy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AssociateSubnets</a>	Grants permission to associate VPC subnets to a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">AttachRuleGroupsToProxyConfiguration</a>	Grants permission to attach proxy rule groups to a proxy configuration	Write	<a href="#">ProxyConfiguration*</a> <a href="#">ProxyRuleGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFirewall</a>	Grants permission to create an AWS Network Firewall firewall	Write	<a href="#">Firewall*</a>		iam:CreateServiceLinkedRole
			<a href="#">FirewallPolicy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFirewallPolicy</a>	Grants permission to create an AWS Network Firewall firewall policy	Write	<a href="#">FirewallPolicy*</a>		
			<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
			<a href="#">TLSInspectionConfiguration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProxy</a>	Grants permission to create an AWS Network Firewall proxy	Write	<a href="#">Proxy*</a>		ec2:AttachApplianceToNatGateway
<a href="#">CreateProxyConfiguration</a>	Grants permission to create an AWS Network Firewall proxy configuration	Write	<a href="#">ProxyConfiguration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
			<a href="#">ProxyRuleGroup</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProxyRuleGroup</a>	Grants permission to create an AWS Network Firewall proxy rule group	Write	<a href="#">ProxyRuleGroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProxyRules</a>	Grants permission to add proxy rules to a proxy rule group	Write	<a href="#">ProxyRuleGroup*</a>		
<a href="#">CreateRuleGroup</a>	Grants permission to create an AWS Network Firewall rule group	Write	<a href="#">StatefulRuleGroup</a> <a href="#">StatelessRuleGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTLSTLSInspectionConfiguration</a>	Grants permission to create an AWS Network Firewall TLS inspection configuration	Write	<a href="#">TLSInspectionConfiguration*</a>		iam:CreateServiceLinkedRole
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateVpcEndpointAssociation</a>	Grants permission to create an AWS Network Firewall VPC endpoint association	Write	<a href="#">Firewall*</a>  <a href="#">VpcEndpointAssociation*</a>		iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteFirewall</a>	Grants permission to delete a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">DeleteFirewallPolicy</a>	Grants permission to delete a firewall policy	Write	<a href="#">FirewallPolicy*</a>		
<a href="#">DeleteNetworkFirewallTransitGatewayAttachment</a>	Grants permission to delete Network Firewall attachments on a transit gateway	Write	<a href="#">Firewall*</a>		
<a href="#">DeleteProxy</a>	Grants permission to delete a proxy	Write	<a href="#">Proxy*</a>		ec2:DetachApplianceFromNatGateway
<a href="#">DeleteProxyConfiguration</a>	Grants permission to delete a proxy configuration	Write	<a href="#">ProxyConfiguration*</a>		
<a href="#">DeleteProxyRuleGroup</a>	Grants permission to delete a proxy rule group	Write	<a href="#">ProxyRuleGroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProxyRules</a>	Grants permission to remove proxy rules from a proxy rule group	Write	<a href="#">ProxyRuleGroup*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy for a firewall policy or rule group or firewall	Write	<a href="#">Firewall</a> <a href="#">FirewallPolicy</a> <a href="#">StatefulRuleGroup</a> <a href="#">StatelessRuleGroup</a>		
<a href="#">DeleteRuleGroup</a>	Grants permission to delete a rule group	Write	<a href="#">StatefulRuleGroup*</a> <a href="#">StatelessRuleGroup*</a>		
<a href="#">DeleteTLSInspectionConfiguration</a>	Grants permission to delete a tls inspection configuration	Write	<a href="#">TLSInspectionConfiguration*</a>		
<a href="#">DeleteVpcEndpointAssociation</a>	Grants permission to delete a vpc endpoint association	Write	<a href="#">VpcEndpointAssociation*</a>		
<a href="#">DescribeFirewall</a>	Grants permission to retrieve the data objects that define a firewall	Read	<a href="#">Firewall*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeFirewallMetadata</a>	Grants permission to retrieve the high-level information about a firewall	Read	<a href="#">Firewall*</a>		
<a href="#">DescribeFirewallPolicy</a>	Grants permission to retrieve the data objects that define a firewall policy	Read	<a href="#">FirewallPolicy*</a> <a href="#">StatefulRuleGroup</a> <a href="#">StatelessRuleGroup</a> <a href="#">TLSInspectionConfiguration</a>		
<a href="#">DescribeFlowOperation</a>	Grants permission to describe a flow operation performed on a firewall	Read	<a href="#">Firewall*</a>		
<a href="#">DescribeLoggingConfiguration</a>	Grants permission to describe the logging configuration of a firewall	Read	<a href="#">Firewall*</a>		logs:GetLogDelivery  logs:ListLogDeliveries
<a href="#">DescribeProxy</a>	Grants permission to retrieve the data objects that define a proxy	Read	<a href="#">Proxy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeProxyConfiguration</a>	Grants permission to retrieve the data objects that define a proxy configuration	Read	<a href="#">ProxyConfiguration*</a>		
<a href="#">DescribeProxyRule</a>	Grants permission to retrieve the data objects that define a proxy rule	Read	<a href="#">ProxyRuleGroup*</a>		
<a href="#">DescribeProxyRuleGroup</a>	Grants permission to retrieve the data objects that define a proxy rule group	Read	<a href="#">ProxyRuleGroup*</a>		
<a href="#">DescribeResourcePolicy</a>	Grants permission to describe a resource policy for a firewall policy or rule group or firewall	Read	<a href="#">Firewall</a>		
			<a href="#">FirewallPolicy</a>		
			<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
<a href="#">DescribeRuleGroup</a>	Grants permission to retrieve the data objects that define a rule group	Read	<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
<a href="#">DescribeRuleGroupMetadata</a>	Grants permission to retrieve the high-level information about a rule group	Read	<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRuleGroupSummary</a>	Grants permission to retrieve the summary information about a rule group	Read	<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
<a href="#">DescribeTLSTLSInspectionConfiguration</a>	Grants permission to retrieve the data objects that define a tls inspection configuration	Read	<a href="#">TLSTLSInspectionConfiguration*</a>		
<a href="#">DescribeVPCVPCEndpointAssociation</a>	Grants permission to retrieve the data objects that define a vpc endpoint association	Read	<a href="#">VPCVPCEndpointAssociation*</a>		
<a href="#">DetachRuleGroupsFromProxyConfiguration</a>	Grants permission to detach proxy rule groups from a proxy configuration	Write	<a href="#">ProxyConfiguration*</a>		
			<a href="#">ProxyRuleGroup*</a>		
<a href="#">DisassociateAvailabilityZones</a>	Grants permission to disassociate availability zones to a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">DisassociateSubnets</a>	Grants permission to disassociate VPC subnets from a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">GetAnalysisReportResults</a>	Grants permission to retrieve analysis report results of a firewall	Read	<a href="#">Firewall*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAnalysisReports</a>	Grants permission to list firewall analysis reports	List	<a href="#">Firewall*</a>		
<a href="#">ListFirewallPolicies</a>	Grants permission to retrieve the metadata for firewall policies	List	<a href="#">FirewallPolicy*</a>		
<a href="#">ListFirewalls</a>	Grants permission to retrieve the metadata for firewalls	List	<a href="#">Firewall*</a>		
<a href="#">ListFlowOperationResults</a>	Grants permission to list results from a flow operation performed on a firewall	Read	<a href="#">Firewall*</a>		
<a href="#">ListFlowOperations</a>	Grants permission to list flow operations performed on a firewall	List	<a href="#">Firewall*</a>		
<a href="#">ListProxies</a>	Grants permission to retrieve the metadata for proxies	List	<a href="#">Proxy*</a>		
<a href="#">ListProxyConfigurations</a>	Grants permission to retrieve the metadata for proxy configurations	List	<a href="#">ProxyConfiguration*</a>		
<a href="#">ListProxyRuleGroups</a>	Grants permission to retrieve the metadata for proxy rule groups	List	<a href="#">ProxyRuleGroup*</a>		
<a href="#">ListRuleGroups</a>	Grants permission to retrieve the metadata for rule groups	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTLSInspectionConfigurations</a>	Grants permission to retrieve the metadata for tls inspection configurations	List	<a href="#">TLSInspectionConfiguration*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to retrieve the tags for a resource	List	<a href="#">Firewall*</a>		
			<a href="#">FirewallPolicy*</a>		
			<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
			<a href="#">TLSInspectionConfiguration</a>		
			<a href="#">VpcEndpointAssociation</a>		
<a href="#">ListVpcEndpointAssociations</a>	Grants permission to retrieve the metadata for vpc endpoint associations	List	<a href="#">VpcEndpointAssociation*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to put a resource policy for a firewall policy or rule group or firewall	Write	<a href="#">Firewall</a>		
			<a href="#">FirewallPolicy</a>		
			<a href="#">StatefulRuleGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Stateless RuleGroup</a>		
<a href="#">RejectNetworkFirewallTransitGatewayAttachment</a>	Grants permission to reject pending Network Firewall attachments on a transit gateway	Write	<a href="#">Firewall*</a>		
<a href="#">StartAnalysisReport</a>	Grants permission to start an analysis report on a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">StartFlowCapture</a>	Grants permission to start capture operation on a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">StartFlowFlush</a>	Grants permission to start flush operation on a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">TagResource</a>	Grants permission to attach tags to a resource	Tagging	<a href="#">Firewall</a>		
			<a href="#">FirewallPolicy</a>		
			<a href="#">Proxy</a>		
			<a href="#">ProxyConfiguration</a>		
			<a href="#">ProxyRuleGroup</a>		
			<a href="#">StatefulRuleGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Stateless RuleGroup</a>		
			<a href="#">TLSInspectionConfiguration</a>		
			<a href="#">VpcEndpointAssociation</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">Firewall</a>		
			<a href="#">FirewallPolicy</a>		
			<a href="#">Proxy</a>		
			<a href="#">ProxyConfiguration</a>		
			<a href="#">ProxyRuleGroup</a>		
			<a href="#">StatefulRuleGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Stateless RuleGroup</a>		
			<a href="#">TLSInspectionConfiguration</a>		
			<a href="#">VpcEndpointAssociation</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAvailabilityZoneChangeProtection</a>	Grants permission to add or remove availability zone change protection for a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateFirewallAnalysisSettings</a>	Grants permission to modify firewall analysis settings of a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateFirewallDeleteProtection</a>	Grants permission to add or remove delete protection for a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateFirewallDescription</a>	Grants permission to modify the description for a firewall	Write	<a href="#">Firewall*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFirewallEncryptionConfiguration</a>	Grants permission to modify the encryption configuration of a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateFirewallPolicy</a>	Grants permission to modify a firewall policy	Write	<a href="#">FirewallPolicy*</a>		
			<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
			<a href="#">TLSInspectionConfiguration</a>		
<a href="#">UpdateFirewallPolicyChangeProtection</a>	Grants permission to add or remove firewall policy change protection for a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateLoggingConfiguration</a>	Grants permission to modify the logging configuration of a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateProxy</a>	Grants permission to modify a proxy	Write	<a href="#">Proxy*</a>		
<a href="#">UpdateProxyConfiguration</a>	Grants permission to modify a proxy configuration	Write	<a href="#">ProxyConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProxyRule</a>	Grants permission to update an existing proxy rule on a proxy rule group	Write	<a href="#">ProxyRuleGroup*</a>		
<a href="#">UpdateProxyRuleGroupPriorities</a>	Grants permission to modify rule group priorities on a proxy configuration	Write	<a href="#">ProxyConfiguration*</a>		
<a href="#">UpdateProxyRulePriorities</a>	Grants permission to update proxy rule priorities within a proxy rule group	Write	<a href="#">ProxyRuleGroup*</a>		
<a href="#">UpdateRuleGroup</a>	Grants permission to modify a rule group	Write	<a href="#">StatefulRuleGroup</a>		
			<a href="#">StatelessRuleGroup</a>		
<a href="#">UpdateSubnetChangeProtection</a>	Grants permission to add or remove subnet change protection for a firewall	Write	<a href="#">Firewall*</a>		
<a href="#">UpdateTLSInspectionConfiguration</a>	Grants permission to modify a tls inspection configuration	Write	<a href="#">TLSInspectionConfiguration*</a>		

## Resource types defined by AWS Network Firewall

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Firewall</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:firewall/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">FirewallPolicy</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:firewall-policy/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">StatefulRuleGroup</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:stateful-rulegroup/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">StatelessRuleGroup</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:stateless-rulegroup/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TLSInspectionConfiguration</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:tls-configuration/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VpcEndpointAssociation</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:vpc-endpoint-association/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ProxyRuleGroup</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:proxy-rule-group/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ProxyConfiguration</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:proxy-configuration/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Proxy</a>	arn:\${Partition}:network-firewall:\${Region}:\${Account}:proxy/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Network Firewall

AWS Network Firewall defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for Network Flow Monitor

Network Flow Monitor (service prefix: `networkflowmonitor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).



- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Network Flow Monitor](#)
- [Resource types defined by Network Flow Monitor](#)
- [Condition keys for Network Flow Monitor](#)

## Actions defined by Network Flow Monitor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMonitor</a>	Grants permission to create a monitor	Write	<a href="#">monitor*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateScope</a>	Grants permission to create a scope	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMonitor</a>	Grants permission to delete a monitor	Write	<a href="#">monitor*</a>		
<a href="#">DeleteScope</a>	Grants permission to delete a scope	Write	<a href="#">scope*</a>		
<a href="#">GetMonitor</a>	Grants permission to get information about a monitor	Read	<a href="#">monitor*</a>		
<a href="#">GetQueryResultsMonitorTopContributors</a>	Grants permission to get the results of a query that retrieves top contributors data for a monitor	Read	<a href="#">monitor*</a>		
<a href="#">GetQueryResultsWorkloadInsightsTopContributors</a>	Grants permission to get the results of a query that retrieves top contributors for workload insights	Read	<a href="#">scope*</a>		
<a href="#">GetQueryResultsWorkloadInsightsTopContributorData</a>	Grants permission to get the results of a query that retrieves top contributors data points for workload insights	Read	<a href="#">scope*</a>		
<a href="#">GetQueryStatusMonitorTopContributors</a>	Grants permission to get the status of a query that retrieves top contributors data for a monitor	Read	<a href="#">monitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetQueryStatusWorkloadInsightsTopContributors</a>	Grants permission to get the status of a query that retrieves top contributors for workload insights	Read	<a href="#">scope*</a>		
<a href="#">GetQueryStatusWorkloadInsightsTopContributorsData</a>	Grants permission to get the status of a query that retrieves top contributors data points for workload insights	Read	<a href="#">scope*</a>		
<a href="#">GetScope</a>	Grants permission to get information about a scope	Read	<a href="#">scope*</a>		
<a href="#">ListMonitors</a>	Grants permission to list all monitors in an account and their statuses	List			
<a href="#">ListScopes</a>	Grants permission to get all scopes for an account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">monitor</a> <a href="#">scope</a>		
<a href="#">Publish</a>	Grants permission to publish a report	Write			
<a href="#">StartQueryMonitorTopContributors</a>	Grants permission to start a query for retrieving top contributors data for a monitor	Write	<a href="#">monitor*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartQueryWorkloadInsightsTopContributors</a>	Grants permission to start a query for retrieving top contributors data for workload insights	Write	<a href="#">scope*</a>		
<a href="#">StartQueryWorkloadInsightsTopContributorsData</a>	Grants permission to start a query for retrieving top contributors data points for workload insights	Write	<a href="#">scope*</a>		
<a href="#">StopQueryMonitorTopContributors</a>	Grants permission to stop a query for retrieving top contributors data for a monitor	Write	<a href="#">monitor*</a>		
<a href="#">StopQueryWorkloadInsightsTopContributors</a>	Grants permission to stop a query for retrieving top contributors for workload insights	Write	<a href="#">scope*</a>		
<a href="#">StopQueryWorkloadInsightsTopContributorsData</a>	Grants permission to stop a query for retrieving top contributors data points for workload insights	Write	<a href="#">scope*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">monitor</a> <a href="#">scope</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">monitor</a>		
			<a href="#">scope</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateMonitor</a>	Grants permission to update a monitor	Write	<a href="#">monitor*</a>		
<a href="#">UpdateScope</a>	Grants permission to update a scope	Write	<a href="#">scope*</a>		

## Resource types defined by Network Flow Monitor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">monitor</a>	arn:\${Partition}:networkflowmonitor:\${Region}:\${Account}:monitor/\${MonitorName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">scope</a>	arn:\${Partition}:networkflowmonitor:\${Region}:\${Account}:scope/\${ScopeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Network Flow Monitor

Network Flow Monitor defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Network Manager

AWS Network Manager (service prefix: `networkmanager`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Network Manager](#)
- [Resource types defined by AWS Network Manager](#)
- [Condition keys for AWS Network Manager](#)

## Actions defined by AWS Network Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.



The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAttachment</a>	Grants permission to accept creation of an attachment between a source and destination in a core network	Write	<a href="#">attachment*</a>		ec2:DescribeRegions
<a href="#">AssociateConnectPeer</a>	Grants permission to associate a Connect Peer	Write	<a href="#">device*</a> <a href="#">global-network*</a>		
<a href="#">AssociateCustomerGateway</a>	Grants permission to associate a customer gateway to a device	Write	<a href="#">device*</a> <a href="#">global-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">link</a>		
				<a href="#">networkmanager:cgwArn</a>	
<a href="#">Associate Link</a>	Grants permission to associate a link to a device	Write	<a href="#">device*</a>		
			<a href="#">global-network*</a>		
			<a href="#">link*</a>		
<a href="#">Associate TransitGatewayConnectPeer</a>	Grants permission to associate a transit gateway connect peer to a device	Write	<a href="#">device*</a>		
			<a href="#">global-network*</a>		
			<a href="#">link</a>		
				<a href="#">networkmanager:tgwConnectPeerArn</a>	
<a href="#">CreateConnectAttachment</a>	Grants permission to create a Connect attachment	Write	<a href="#">attachment*</a>		ec2:DescribeRegions  networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">core-network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConnectPeer</a>	Grants permission to create a Connect Peer connection	Write	<a href="#">attachment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:DescribeRegions  networkmanager:TagResource
<a href="#">CreateConnection</a>	Grants permission to create a new connection	Write	<a href="#">global-network*</a>		networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCoreNetwork</a>	Grants permission to create a new core network	Write	<a href="#">global-network*</a>		ec2:DescribeRegions networkmanager:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCoreNetworkPrefixListAssociation</a>	Grants permission to create a prefix list core network association	Write	<a href="#">core-network*</a>		
<a href="#">CreateDevice</a>	Grants permission to create a new device	Write	<a href="#">global-network*</a>		networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDirectConnectGatewayAttachment</a>	Grants permission to create a Direct Connect gateway attachment	Write	<a href="#">core-network*</a>		ec2:DescribeRegions  networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">networkmanager:directConnectGatewayArn</a> <a href="#">networkmanager:edgeLocations</a>	
<a href="#">CreateGlobalNetwork</a>	Grants permission to create a new global network	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole networkmanager:TagResource
<a href="#">CreateLink</a>	Grants permission to create a new link	Write	<a href="#">global-network*</a>  <a href="#">site</a>		networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSite</a>	Grants permission to create a new site	Write	<a href="#">global-network*</a>		networkmanager:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSiteToSiteVPNAttachment</a>	Grants permission to create a site-to-site VPN attachment	Write	<a href="#">core-network*</a>		ec2:DescribeRegions  networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">networkmanager:vpnConnectionArn</a>	
<a href="#">CreateTransitGatewayPeering</a>	Grants permission to create a Transit Gateway peering	Write	<a href="#">core-network*</a>		ec2:DescribeRegions  networkmanager:TagResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">networkmanager:tgwArn</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransitGatewayRouteTableAttachment</a>	Grants permission to create a TGW RTB attachment	Write	<a href="#">peering*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">networkmanager:tgwRtbArn</a>	ec2:DescribeRegions  networkmanager:TagResource
<a href="#">CreateVpcAttachment</a>	Grants permission to create a VPC attachment	Write	<a href="#">core-network*</a>		ec2:DescribeRegions  networkmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">networkmanager:vpcArn</a> <a href="#">networkmanager:subnetArns</a>	
<a href="#">DeleteAttachment</a>	Grants permission to delete an attachment	Write	<a href="#">attachment*</a>		ec2:DescribeRegions
<a href="#">DeleteConnectPeer</a>	Grants permission to delete a Connect Peer	Write	<a href="#">connect-peer*</a>		ec2:DescribeRegions
<a href="#">DeleteConnection</a>	Grants permission to delete a connection	Write	<a href="#">connection*</a>		
			<a href="#">global-network*</a>		
<a href="#">DeleteCoreNetwork</a>	Grants permission to delete a core network	Write	<a href="#">core-network*</a>		ec2:DescribeRegions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCoreNetworkPolicyVersion</a>	Grants permission to delete the core network policy version	Write	<a href="#">core-network*</a>		
<a href="#">DeleteCoreNetworkPrefixListAssociation</a>	Grants permission to delete a prefix list core network association	Write	<a href="#">core-network*</a>		
<a href="#">DeleteDevice</a>	Grants permission to delete a device	Write	<a href="#">device*</a>		
			<a href="#">global-network*</a>		
<a href="#">DeleteGlobalNetwork</a>	Grants permission to delete a global network	Write	<a href="#">global-network*</a>		
<a href="#">DeleteLink</a>	Grants permission to delete a link	Write	<a href="#">global-network*</a>		
			<a href="#">link*</a>		
<a href="#">DeletePeering</a>	Grants permission to delete a peering	Write	<a href="#">peering*</a>		ec2:DescribeRegions
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource	Permissions management	<a href="#">core-network*</a>		
<a href="#">DeleteSite</a>	Grants permission to delete a site	Write	<a href="#">global-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">site*</a>		
<a href="#">DeregisterTransitGateway</a>	Grants permission to deregister a transit gateway from a global network	Write	<a href="#">global-network*</a>		
				<a href="#">networkmanager:tgwArn</a>	
<a href="#">DescribeGlobalNetworks</a>	Grants permission to describe global networks	List	<a href="#">global-network</a>		
<a href="#">DisassociateConnectPeer</a>	Grants permission to disassociate a Connect Peer	Write	<a href="#">global-network*</a>		
<a href="#">DisassociateCustomerGateway</a>	Grants permission to disassociate a customer gateway from a device	Write	<a href="#">global-network*</a>		
				<a href="#">networkmanager:cgwArn</a>	
<a href="#">DisassociateLink</a>	Grants permission to disassociate a link from a device	Write	<a href="#">device*</a>		
			<a href="#">global-network*</a>		
			<a href="#">link*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateTransitGatewayConnectPeer</a>	Grants permission to disassociate a transit gateway connect peer from a device	Write	<a href="#">global-network*</a>	<a href="#">networkmanager:tgwConnectPeerArn</a>	
<a href="#">ExecuteCoreNetworkChangeSet</a>	Grants permission to apply changes to the core network	Write	<a href="#">core-network*</a>		ec2:DescribeRegions
<a href="#">GetConnectAttachment</a>	Grants permission to retrieve a Connect attachment	Read	<a href="#">attachment*</a>		
<a href="#">GetConnectPeer</a>	Grants permission to retrieve a Connect Peer	Read	<a href="#">connect-peer*</a>		
<a href="#">GetConnectPeerAssociations</a>	Grants permission to describe Connect Peer associations	Read	<a href="#">global-network*</a>		
<a href="#">GetConnections</a>	Grants permission to describe connections	List	<a href="#">global-network*</a>		
			<a href="#">connection</a>		
<a href="#">GetCoreNetwork</a>	Grants permission to retrieve a core network	Read	<a href="#">core-network*</a>		
<a href="#">GetCoreNetworkChangeEvents</a>	Grants permission to retrieve a list of core network change events	Read	<a href="#">core-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCoreNetworkChangeSet</a>	Grants permission to retrieve a list of core network change sets	Read	<a href="#">core-network*</a>		
<a href="#">GetCoreNetworkPolicy</a>	Grants permission to retrieve core network policy	Read	<a href="#">core-network*</a>		
<a href="#">GetCustomerGatewayAssociations</a>	Grants permission to describe customer gateway associations	List	<a href="#">global-network*</a>		
<a href="#">GetDevices</a>	Grants permission to describe devices	List	<a href="#">global-network*</a>		
			<a href="#">device</a>		
<a href="#">GetDirectConnectGatewayAttachment</a>	Grants permission to retrieve a Direct Connect gateway attachment	Read	<a href="#">attachment*</a>		
<a href="#">GetLinkAssociations</a>	Grants permission to describe link associations	List	<a href="#">global-network*</a>		
			<a href="#">device</a>		
			<a href="#">link</a>		
<a href="#">GetLinks</a>	Grants permission to describe links	List	<a href="#">global-network*</a>		
			<a href="#">link</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetNetworkResourceCounts</a>	Grants permission to return the number of resources for a global network grouped by type	Read	<a href="#">global-network*</a>		
<a href="#">GetNetworkResourceRelationships</a>	Grants permission to retrieve related resources for a resource within the global network	Read	<a href="#">global-network*</a>		
<a href="#">GetNetworkResources</a>	Grants permission to retrieve a global network resource	Read	<a href="#">global-network*</a>		
<a href="#">GetNetworkRoutes</a>	Grants permission to retrieve routes for a route table within the global network	Read	<a href="#">global-network*</a>		
<a href="#">GetNetworkTelemetry</a>	Grants permission to retrieve network telemetry objects for the global network	Read	<a href="#">global-network*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to retrieve a resource policy	Read	<a href="#">core-network*</a>		
<a href="#">GetRouteAnalysis</a>	Grants permission to retrieve a route analysis configuration and result	Read	<a href="#">global-network*</a>		
<a href="#">GetSiteToSiteVpnAttachment</a>	Grants permission to retrieve a site-to-site VPN attachment	Read	<a href="#">attachment*</a>		
<a href="#">GetSites</a>	Grants permission to describe global networks	List	<a href="#">global-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTransitGatewayConnectPeerAssociations</a>	Grants permission to describe transit gateway connect peer associations	List	<a href="#">site</a> <a href="#">global-network*</a>		
<a href="#">GetTransitGatewayPeering</a>	Grants permission to retrieve a Transit Gateway peering	Read	<a href="#">peering*</a>		
<a href="#">GetTransitGatewayRegistrations</a>	Grants permission to describe transit gateway registrations	List	<a href="#">global-network*</a>		
<a href="#">GetTransitGatewayRouteTableAttachment</a>	Grants permission to retrieve a TGW RTB attachment	Read	<a href="#">attachment*</a>		
<a href="#">GetVpcAttachment</a>	Grants permission to retrieve a VPC attachment	Read	<a href="#">attachment*</a>		
<a href="#">ListAttachmentRoutingPolicyAssociations</a>	Grants permission to list all routing policies associated to core network attachments	List	<a href="#">core-network*</a>		
<a href="#">ListAttachments</a>	Grants permission to describe attachments	List	<a href="#">attachment*</a>		
<a href="#">ListConnectPeers</a>	Grants permission to describe Connect Peers	List	<a href="#">connect-peer*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCoreNetworkPolicyVersions</a>	Grants permission to list core network policy versions	List	<a href="#">core-network*</a>		
<a href="#">ListCoreNetworkPrefixListAssociations</a>	Grants permission to list core network prefix list associations	List	<a href="#">core-network*</a>		
<a href="#">ListCoreNetworkRoutingInformation</a>	Grants permission to list core network routing information	List	<a href="#">core-network*</a>		
<a href="#">ListCoreNetworks</a>	Grants permission to list core networks	List			
<a href="#">ListOrganizationServiceAccessStatus</a>	Grants permission to list organization service access status	List			
<a href="#">ListPeerings</a>	Grants permission to describe peerings	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Network Manager resource	Read	<a href="#">attachment</a>		
			<a href="#">connect-peer</a>		
			<a href="#">connection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">core-network</a>		
			<a href="#">device</a>		
			<a href="#">global-network</a>		
			<a href="#">link</a>		
			<a href="#">peering</a>		
			<a href="#">site</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutAttachmentRoutingPolicyLabel</a>	Grants permission to put an attachment routing policy label	Write	<a href="#">attachment*</a>		
			<a href="#">core-network*</a>		
<a href="#">PutCoreNetworkPolicy</a>	Grants permission to create a core network policy	Write	<a href="#">core-network*</a>		ec2:DescribeRegions
<a href="#">PutResourcePolicy</a>	Grants permission to create or update a resource policy	Permissions management	<a href="#">core-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterTransitGateway</a>	Grants permission to register a transit gateway to a global network	Write	<a href="#">global-network*</a>	<a href="#">networkmanager:tgwArn</a>	
<a href="#">RejectAttachment</a>	Grants permission to reject attachment request	Write	<a href="#">attachment*</a>		
<a href="#">RemoveAttachmentRoutingPolicyLabel</a>	Grants permission to remove an attachment routing policy label	Write	<a href="#">attachment*</a> <a href="#">core-network*</a>		
<a href="#">RestoreCoreNetworkPolicyVersion</a>	Grants permission to restore the core network policy to a previous version	Write	<a href="#">core-network*</a>		ec2:DescribeRegions
<a href="#">StartOrganizationServiceAccessUpdate</a>	Grants permission to start organization service access update	Permissions management			
<a href="#">StartRouteAnalysis</a>	Grants permission to start a route analysis and stores analysis configuration	Write	<a href="#">global-network*</a>		
<a href="#">TagResource</a>	Grants permission to tag a Network Manager resource	Tagging	<a href="#">attachment*</a> <a href="#">connect-peer</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">connection</a>		
			<a href="#">core-network</a>		
			<a href="#">device</a>		
			<a href="#">global-network</a>		
			<a href="#">link</a>		
			<a href="#">peering</a>		
			<a href="#">site</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a Network Manager resource	Tagging	<a href="#">attachment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">connect-peer</a>		
			<a href="#">connection</a>		
			<a href="#">core-network</a>		
			<a href="#">device</a>		
			<a href="#">global-network</a>		
			<a href="#">link</a>		
			<a href="#">peering</a>		
			<a href="#">site</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConnection</a>	Grants permission to update a connection	Write	<a href="#">connection*</a>		
			<a href="#">global-network*</a>		
<a href="#">UpdateCoreNetwork</a>	Grants permission to update a core network	Write	<a href="#">core-network*</a>		
<a href="#">UpdateDevice</a>	Grants permission to update a device	Write	<a href="#">device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">global-network*</a>		
<a href="#">UpdateDirectConnectGatewayAttachment</a>	Grants permission to update a Direct Connect gateway attachment	Write	<a href="#">attachment*</a>		ec2:DescribeRegions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">networkmanager:edgeLocations</a>	
<a href="#">UpdateGlobalNetwork</a>	Grants permission to update a global network	Write	<a href="#">global-network*</a>		
<a href="#">UpdateLink</a>	Grants permission to update a link	Write	<a href="#">global-network*</a>		
			<a href="#">link*</a>		
<a href="#">UpdateNetworkResourceMetadata</a>	Grants permission to add or update metadata key/value pairs on network resource	Write	<a href="#">global-network*</a>		
<a href="#">UpdateSite</a>	Grants permission to update a site	Write	<a href="#">global-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">site*</a>		
<a href="#">UpdateVpcAttachment</a>	Grants permission to update a VPC attachment	Write	<a href="#">attachment*</a>		ec2:DescribeRegions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">networkmanager:subnetArns</a>	

## Resource types defined by AWS Network Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">global-network</a>	arn:\${Partition}:networkmanager::\${Account}:global-network/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">site</a>	arn:\${Partition}:networkmanager::\${Account}:site/\${GlobalNetworkId}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">link</a>	arn:\${Partition}:networkmanager::\${Account}:link/\${GlobalNetworkId}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">device</a>	arn:\${Partition}:networkmanager::\${Account}:device/\${GlobalNetworkId}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connection</a>	arn:\${Partition}:networkmanager::\${Account}:connection/\${GlobalNetworkId}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">core-network</a>	arn:\${Partition}:networkmanager::\${Account}:core-network/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">attachment</a>	arn:\${Partition}:networkmanager::\${Account}:attachment/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connect-peer</a>	arn:\${Partition}:networkmanager::\${Account}:connect-peer/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">peering</a>	arn:\${Partition}:networkmanager::\${Account}:peering/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Network Manager

AWS Network Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">networkmanager:cgwArn</a>	Filters access by which customer gateways can be associated or disassociated	ARN
<a href="#">networkmanager:directConnectGatewayArn</a>	Filters access by which Direct Connect gateway can be used to a create/update attachment	ARN
<a href="#">networkmanager:edgeLocations</a>	Filters access by which edge locations can be added or removed from a Direct Connect gateway attachment	ArrayOfString
<a href="#">networkmanager:subnetArns</a>	Filters access by which VPC subnets can be added or removed from a VPC attachment	ArrayOfARN
<a href="#">networkmanager:tgwArn</a>	Filters access by which transit gateways can be registered, deregistered, or peered	ARN
<a href="#">networkmanager:tgwConnectPeerArn</a>	Filters access by which transit gateway connect peers can be associated or disassociated	ARN

Condition keys	Description	Type
<a href="#">networkmanager:tgwRtbArn</a>	Filters access by which Transit Gateway Route Table can be used to create an attachment	ARN
<a href="#">networkmanager:vpcArn</a>	Filters access by which VPC can be used to a create/update attachment	ARN
<a href="#">networkmanager:vpnConnectionArn</a>	Filters access by which Site-to-Site VPN can be used to a create/update attachment	ARN

## Actions, resources, and condition keys for AWS Network Manager Chat

AWS Network Manager Chat (service prefix: `networkmanager-chat`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Network Manager Chat](#)
- [Resource types defined by AWS Network Manager Chat](#)
- [Condition keys for AWS Network Manager Chat](#)

## Actions defined by AWS Network Manager Chat


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelMessageResponse</a> [permission only]	Grants permission to cancel a response to a message	Write			
<a href="#">CreateConversation</a> [permission only]	Grants permission to create a conversation	Write			
<a href="#">DeleteConversation</a> [permission only]	Grants permission to delete a conversation	Write			
<a href="#">ListConversationMessages</a> [permission only]	Grants permission to list conversation messages	List			
<a href="#">ListConversations</a> [permission only]	Grants permission to list conversations	List			
<a href="#">NotifyConversationIsActive</a> [permission only]	Grants permission to notify whether there is activity in a conversation	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendConversationMessage</a> [permission only]	Grants permission to send a conversation message	Write			

## Resource types defined by AWS Network Manager Chat

AWS Network Manager Chat does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Network Manager Chat, specify "Resource": "\*" in your policy.

## Condition keys for AWS Network Manager Chat

Network Manager Chat has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Nimble Studio

Amazon Nimble Studio (service prefix: nimble) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Nimble Studio](#)

- [Resource types defined by Amazon Nimble Studio](#)
- [Condition keys for Amazon Nimble Studio](#)

## Actions defined by Amazon Nimble Studio

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptEulas</a>	Grants permission to accept EULAs	Write	<a href="#">eula*</a>		
<a href="#">CreateLaunchProfile</a>	Grants permission to create a launch profile	Write	<a href="#">studio*</a>		ec2:CreateNetworkInterface ec2:DescribeNatGateways ec2:DescribeNetworkAcls ec2:DescribeRouteTables ec2:DescribeSubnets

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeVpcEndpoints  ec2:RunInstances
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStreamingImage</a>	Grants permission to create a streaming image	Write	<a href="#">studio*</a>		ec2:DescribeImages  ec2:DescribeSnapshots  ec2:ModifyInstanceAttribute  ec2:ModifySnapshotAttribute  ec2:RegisterImage



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStreamingSession</a>	Grants permission to create a streaming session	Write	<a href="#">launch-profile*</a>		ec2:CreateNetworkInterface  ec2:CreateNetworkInterfacePermission  nimble:GetLaunchProfile  nimble:GetLaunchProfileInitialization  nimble:ListEulaAcceptances

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateStreamingSessionStream</a>	Grants permission to create a StreamingSessionStream	Write	<a href="#">streaming-session*</a>	<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">CreateStudio</a>	Grants permission to create a studio	Write	<a href="#">studio*</a>		iam:PassRole sso:CreateManagedApplicationInstance
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStudioComponent</a>	Grants permission to create a studio component. A studio component designates a network resource to which a launch profile will provide access	Write	<a href="#">studio*</a>		ds:AuthorizeApplication ds:DescribeDirectories ec2:DescribeSecurityGroups fsx:DescribeFileSystems iam:PassRole
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteLaunchProfile</a>	Grants permission to delete a launch profile	Write	<a href="#">launch-profile*</a>		
<a href="#">DeleteLaunchProfileMember</a>	Grants permission to delete a launch profile member	Write	<a href="#">launch-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteStreamingImage</a>	Grants permission to delete a streaming image	Write	<a href="#">streaming-image*</a>		ec2:DeleteSnapshot  ec2:DeregisterImage  ec2:ModifyInstanceAttribute  ec2:ModifySnapshotAttribute
<a href="#">DeleteStreamingSession</a>	Grants permission to delete a streaming session	Write	<a href="#">streaming-session*</a>		ec2:DeleteNetworkInterface
				<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">DeleteStudio</a>	Grants permission to delete a studio	Write	<a href="#">studio*</a>		sso:DeleteManagedApplicationInstance
<a href="#">DeleteStudioComponent</a>	Grants permission to delete a studio component	Write	<a href="#">studio-component*</a>		ds:UnauthorizeApplication
<a href="#">DeleteStudioMember</a>	Grants permission to delete a studio member	Write	<a href="#">studio*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEula</a>	Grants permission to get a EULA	Read	<a href="#">eula*</a>		
<a href="#">GetFeatureMap</a> [permission only]	Grants permission to allow Nimble Studio portal to show the appropriate features for this account	Read			
<a href="#">GetLaunchProfile</a>	Grants permission to get a launch profile	Read	<a href="#">launch-profile*</a>		
<a href="#">GetLaunchProfileDetails</a>	Grants permission to get a launch profile's details, which includes the summary of studio components and streaming images used by the launch profile	Read	<a href="#">launch-profile*</a>		
<a href="#">GetLaunchProfileInitialization</a>	Grants permission to get a launch profile initialization. A launch profile initialization is a dereferenced version of a launch profile, including attached studio component connection information	Read	<a href="#">launch-profile*</a>		ds:DescribeDirectories ec2:DescribeSecurityGroups fsx:DescribeFileSystems
<a href="#">GetLaunchProfileMember</a>	Grants permission to get a launch profile member	Read	<a href="#">launch-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetStreamingImage</a>	Grants permission to get a streaming image	Read	<a href="#">streaming-image*</a>		
<a href="#">GetStreamingSession</a>	Grants permission to get a streaming session	Read	<a href="#">streaming-session*</a>		
				<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">GetStreamingSessionBackup</a>	Grants permission to get a streaming session backup	Read	<a href="#">streaming-session-backup*</a>		
				<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">GetStreamingSessionStream</a>	Grants permission to get a streaming session stream	Read	<a href="#">streaming-session*</a>		
				<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">GetStudio</a>	Grants permission to get a studio	Read	<a href="#">studio*</a>		
<a href="#">GetStudioComponent</a>	Grants permission to get a studio component	Read	<a href="#">studio-component*</a>		
<a href="#">GetStudioMember</a>	Grants permission to get a studio member	Read	<a href="#">studio*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEulaAcceptances</a>	Grants permission to list EULA acceptances	Read	<a href="#">eula-acceptance*</a>		
<a href="#">ListEulas</a>	Grants permission to list EULAs	Read	<a href="#">eula*</a>		
<a href="#">ListLaunchProfileMembers</a>	Grants permission to list launch profile members	Read	<a href="#">launch-profile*</a>		
<a href="#">ListLaunchProfiles</a>	Grants permission to list launch profiles	Read	<a href="#">studio*</a>	<a href="#">nimble:principalId</a> <a href="#">nimble:requesterPrincipalId</a>	
<a href="#">ListStreamingImages</a>	Grants permission to list streaming images	Read	<a href="#">studio*</a>		
<a href="#">ListStreamingSessionBackups</a>	Grants permission to list streaming session backups	Read	<a href="#">studio*</a>	<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">ListStreamingSessions</a>	Grants permission to list streaming sessions	Read	<a href="#">studio*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">nimble:createdBy</a> <a href="#">nimble:ownedBy</a> <a href="#">nimble:requesterPrincipalId</a>	
<a href="#">ListStudioComponents</a>	Grants permission to list studio components	Read	<a href="#">studio*</a>		
<a href="#">ListStudioMembers</a>	Grants permission to list studio members	Read	<a href="#">studio*</a>		
<a href="#">ListStudios</a>	Grants permission to list all studios	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags on a Nimble Studio resource	Read	<a href="#">launch-profile</a> <a href="#">streaming-image</a> <a href="#">streaming-session</a> <a href="#">streaming-session-backup</a> <a href="#">studio</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">studio-component</a>		
<a href="#">PutLaunchProfileMembers</a>	Grants permission to add/update launch profile members	Write	<a href="#">launch-profile*</a>		sso-directory:DescribeUsers
<a href="#">PutStudioLogEvents</a> [permission only]	Grants permission to report metrics and logs for the Nimble Studio portal to monitor application health	Write	<a href="#">studio*</a>		
<a href="#">PutStudioMembers</a>	Grants permission to add/update studio members	Write	<a href="#">studio*</a>		sso-directory:DescribeUsers
<a href="#">StartStreamingSession</a>	Grants permission to start a streaming session	Write	<a href="#">streaming-session*</a>		nimble:GetLaunchProfile  nimble:GetLaunchProfileMember
			<a href="#">streaming-session-backup</a>		
				<a href="#">nimble:requesterPrincipalId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartStudioSSOConfigurationRepair</a>	Grants permission to repair the studio's AWS IAM Identity Center configuration	Write	<a href="#">studio*</a>		sso:CreateManagedApplicationInstance  sso:GetManagedApplicationInstance
<a href="#">StopStreamingSession</a>	Grants permission to stop a streaming session	Write	<a href="#">streaming-session*</a>		nimble:GetLaunchProfile
				<a href="#">nimble:requesterPrincipalId</a>	
<a href="#">TagResource</a>	Grants permission to add or overwrite one or more tags for the specified Nimble Studio resource	Tagging	<a href="#">launch-profile</a>		
			<a href="#">streaming-image</a>		
			<a href="#">streaming-session</a>		
			<a href="#">streaming-session-backup</a>		
			<a href="#">studio</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">studio-component</a>		
<a href="#">UntagResource</a>	Grants permission to disassociate one or more tags from the specified Nimble Studio resource	Tagging	<a href="#">launch-profile</a> <a href="#">streaming-image</a> <a href="#">streaming-session</a> <a href="#">streaming-session-backup</a> <a href="#">studio</a> <a href="#">studio-component</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateLaunchProfile</a>	Grants permission to update a launch profile	Write	<a href="#">launch-profile*</a>		ec2:DescribeNatGateways ec2:DescribeNetworkAcls ec2:DescribeRouteTables ec2:DescribeSubnets ec2:DescribeVpcEndpoints
<a href="#">UpdateLaunchProfileMember</a>	Grants permission to update a launch profile member	Write	<a href="#">launch-profile*</a>		
<a href="#">UpdateStreamingImage</a>	Grants permission to update a streaming image	Write	<a href="#">streaming-image*</a>		
<a href="#">UpdateStudio</a>	Grants permission to update a studio	Write	<a href="#">studio*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateStudioComponent</a>	Grants permission to update a studio component	Write	<a href="#">studio-component*</a>		ds:AuthorizeApplication ds:DescribeDirectories ec2:DescribeSecurityGroups fsx:DescribeFileSystems iam:PassRole

## Resource types defined by Amazon Nimble Studio

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">studio</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:studio/\${StudioId}	<a href="#">aws:RequestTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">nimble:studioid</a>
<a href="#">streaming-image</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:streaming-image/\${StreamingImageId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">nimble:studioid</a>
<a href="#">studio-component</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:studio-component/\${StudioComponentId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">nimble:studioid</a>
<a href="#">launch-profile</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:launch-profile/\${LaunchProfileId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">nimble:studioid</a>

Resource types	ARN	Condition keys
<a href="#">streaming-session</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:streaming-session/\${StreamingSessionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">nimble:createdBy</a> <a href="#">nimble:ownedBy</a>
<a href="#">streaming-session-backup</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:streaming-session-backup/\${StreamingSessionBackupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">nimble:ownedBy</a>
<a href="#">eula</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:eula/\${EulaId}	
<a href="#">eula-acceptance</a>	arn:\${Partition}:nimble:\${Region}:\${Account}:eula-acceptance/\${EulaAcceptanceId}	<a href="#">nimble:studioId</a>

## Condition keys for Amazon Nimble Studio

Amazon Nimble Studio defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">nimble:createdBy</a>	Filters access by the createdBy request parameter or the ID of the creator of the resource	String
<a href="#">nimble:ownedBy</a>	Filters access by the ownedBy request parameter or the ID of the owner of the resource	String
<a href="#">nimble:principalId</a>	Filters access by the principalId request parameter	String
<a href="#">nimble:requesterPrincipalId</a>	Filters access by the ID of the logged in user	String
<a href="#">nimble:studioId</a>	Filters access by a specific studio	ARN

## Actions, resources, and condition keys for Amazon Nova Act

Amazon Nova Act (service prefix: nova-act) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).



- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Nova Act](#)
- [Resource types defined by Amazon Nova Act](#)
- [Condition keys for Amazon Nova Act](#)

## Actions defined by Amazon Nova Act

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAct</a>	Grants permission to create a new AI task (act) within a session that can interact with tools and perform specific actions	Write	<a href="#">workflow-definition</a> <a href="#">n*</a>		
			<a href="#">workflow-run*</a>		
<a href="#">CreateSession</a>	Grants permission to create a new session context within a workflow run to manage conversation state and acts	Write	<a href="#">workflow-definition</a> <a href="#">n*</a>		
			<a href="#">workflow-run*</a>		
<a href="#">CreateWorkflowDefinition</a>	Grants permission to create a new workflow definition template that can be used to execute multiple workflow runs	Write	<a href="#">workflow-definition</a> <a href="#">n*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkflowRun</a>	Grants permission to create a new execution instance of a workflow definition with specified parameters	Write	<a href="#">workflow-definition</a> n*		
<a href="#">DeleteWorkflowDefinition</a>	Grants permission to delete a workflow definition and all associated resources	Write	<a href="#">workflow-definition</a> n*		
<a href="#">DeleteWorkflowRun</a>	Grants permission to terminate and clean up a workflow run, stopping all associated acts and sessions	Write	<a href="#">workflow-definition</a> n*  <a href="#">workflow-run</a> *		
<a href="#">GetWorkflowDefinition</a>	Grants permission to retrieve details and configuration of a specific workflow definition	Read	<a href="#">workflow-definition</a> n*		
<a href="#">GetWorkflowRun</a>	Grants permission to retrieve the current state, configuration, and execution details of a workflow run	Read	<a href="#">workflow-definition</a> n*  <a href="#">workflow-run</a> *		
<a href="#">InvokeActStep</a>	Grants permission to execute the next step of an act, processing tool call results and returning new tool calls if needed	Write	<a href="#">workflow-definition</a> n*  <a href="#">workflow-run</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListActs</a>	Grants permission to list all acts within a specific session with their current status and execution details	Read	<a href="#">workflow-definition</a> <a href="#">n*</a>		
<a href="#">ListModels</a>	Grants permission to list all available AI models that can be used for workflow execution, including their status and compatibility information	Read			
<a href="#">ListSessions</a>	Grants permission to list all sessions within a specific workflow run	Read	<a href="#">workflow-definition</a> <a href="#">n*</a>		
			<a href="#">workflow-run</a> <a href="#">*</a>		
<a href="#">ListWorkflowDefinitions</a>	Grants permission to list all workflow definitions in your account with optional filtering and pagination	List			
<a href="#">ListWorkflowRuns</a>	Grants permission to list all workflow runs for a specific workflow definition with optional filtering and pagination	List	<a href="#">workflow-definition</a> <a href="#">n*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAct</a>	Grants permission to update an existing act's configuration, status, or error information	Write	<a href="#">workflow-definition</a> <a href="#">n*</a>		
			<a href="#">workflow-run</a> *		
<a href="#">UpdateWorkflowRun</a>	Grants permission to update the configuration or state of an active workflow run	Write	<a href="#">workflow-definition</a> <a href="#">n*</a>		
			<a href="#">workflow-run</a> *		

## Resource types defined by Amazon Nova Act

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">workflow-definition</a>	arn:\${Partition}:nova-act:\${Region}:\${Account}:workflow-definition/\${WorkflowDefinitionName}	
<a href="#">workflow-run</a>	arn:\${Partition}:nova-act:\${Region}:\${Account}:workflow-definition/\${WorkflowRunName}	

Resource types	ARN	Condition keys
	kflowDefinitionName}/workflow-run/\${WorkflowRunId}	

## Condition keys for Amazon Nova Act

Nova Act has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon One Enterprise

Amazon One Enterprise (service prefix: one) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon One Enterprise](#)
- [Resource types defined by Amazon One Enterprise](#)
- [Condition keys for Amazon One Enterprise](#)

## Actions defined by Amazon One Enterprise

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDeviceActivationQrCode</a>	Grants permission to create a QR code for a Device Instance	Write	<a href="#">device-instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateDeviceConfigurationTemplate</a>	Grants permission to create a Device Configuration Template	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateDeviceInstance</a>	Grants permission to create a Device Instance	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateDeviceInstanceConfiguration</a>	Grants permission to create a Device Instance Configuration	Write	<a href="#">device-instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateSite</a>	Grants permission to create a Site	Write		<a href="#">aws:RequestTag/</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAssociatedDevice</a>	Grants permission to disassociate Device from a Device Instance	Write	<a href="#">device-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDeviceConfigurationTemplate</a>	Grants permission to delete a Device Configuration Template	Write	<a href="#">device-configuration-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDeviceInstance</a>	Grants permission to delete a Device Instance	Write	<a href="#">device-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSite</a>	Grants permission to delete a Site	Write	<a href="#">site*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteUserV1</a>	Grants permission to delete a User	Write	<a href="#">user*</a>		
<a href="#">GetDeviceConfigurationTemplate</a>	Grants permission to view a Device Configuration Template	Read	<a href="#">device-configuration-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeviceInstance</a>	Grants permission to view a Device Instance	Read	<a href="#">device-instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeviceInstanceConfiguration</a>	Grants permission to view a Device Instance Configuration	Read	<a href="#">configuration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSite</a>	Grants permission to view a Site	Read	<a href="#">site*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSiteAddress</a>	Grants permission to view address of a Site	Read	<a href="#">site*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListDeviceConfigurationTemplates</a>	Grants permission to retrieve list of Device Configuration Templates	List			
<a href="#">ListDeviceInstances</a>	Grants permission to retrieve list of Device Instances	List			
<a href="#">ListSites</a>	Grants permission to view list of Sites	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an Amazon One Enterprise resource	Read	<a href="#">device-configuration-template</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">device- instance</a>		
			<a href="#">site</a>		
				<a href="#">aws:Resou rceTag/ \${ TagKey}</a>	
<a href="#">ListUsers</a>	Grants permission to view list of Users	List			
<a href="#">ListUsersV1</a>	Grants permission to view list of Users	List			
<a href="#">RebootDevice</a>	Grants permission to reboot Device associated with a Device Instance	Write	<a href="#">device- instance*</a>		
				<a href="#">aws:Resou rceTag/ \${ TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to add tags to an Amazon One Enterprise resource	Tagging	<a href="#">device-co nfigurati on- template</a>		
			<a href="#">device- instance</a>		
			<a href="#">site</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from an Amazon One Enterprise resource	Tagging	<a href="#">device-configuration-template</a> <a href="#">device-instance</a> <a href="#">site</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDeviceConfigurationTemplate</a>	Grants permission to update a Device Configuration Template	Write	<a href="#">device-configuration-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDeviceInstance</a>	Grants permission to update a Device Instance	Write	<a href="#">device-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSite</a>	Grants permission to update a Site	Write	<a href="#">site*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSiteAddress</a>	Grants permission to update address of a Site	Write	<a href="#">site*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon One Enterprise

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">device-instance</a>	arn:\${Partition}:one:\${Region}:\${Account}:device-instance/\${DeviceInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configuration</a>	arn:\${Partition}:one:\${Region}:\${Account}:device-instance/\${DeviceInstanceId}/configuration/\${Version}	
<a href="#">device-configuration-template</a>	arn:\${Partition}:one:\${Region}:\${Account}:device-configuration-template/\${TemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">site</a>	arn:\${Partition}:one:\${Region}:\${Account}:site/\${SiteId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">user</a>	arn:\${Partition}:one:\${Region}:\${Account}:user/\${UserId}	

## Condition keys for Amazon One Enterprise

Amazon One Enterprise defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by using tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by using tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon OpenSearch

Amazon OpenSearch (service prefix: `opensearch`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon OpenSearch](#)
- [Resource types defined by Amazon OpenSearch](#)
- [Condition keys for Amazon OpenSearch](#)

## Actions defined by Amazon OpenSearch

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of



access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ApplicationAccessAll</a> [permission only]	Grants permission to access OpenSearch Application	Permissions management	<a href="#">application*</a>		
<a href="#">CancelAutoOptimizeJob</a>	Grants permission to cancel submitted Auto Optimize Job	Write			
<a href="#">CancelDirectQuery</a>	Grants permission to cancel the query that is submitted on the OpenSearch DataSource resource	Write	<a href="#">datasource*</a>		
<a href="#">DeleteAutoOptimizeJob</a>	Grants permission to delete Auto Optimize Job	Write			
<a href="#">GetAutoOptimizeJob</a>	Grants permission to get the Auto Optimize Job details	Read			
<a href="#">GetDirectQuery</a>	Grants permission to get the query status that are performed on the OpenSearch DataSource resource	Read	<a href="#">datasource*</a>		
<a href="#">GetDirectQueryResult</a>	Grants permission to get the results of a query that is performed on the OpenSearch DataSource resource	Read	<a href="#">datasource*</a>		
<a href="#">ListAutoOptimizeJobs</a>	Grants permission to retrieve a list of Auto Optimize Jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDirectQuery</a>	Grants permission to start a direct query on the provided OpenSearch DataSource arns	Write	<a href="#">datasource*</a>		
<a href="#">SubmitAutoOptimizeJob</a>	Grants permission to create new Auto Optimize Job	Write			

## Resource types defined by Amazon OpenSearch

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:opensearch:\${Region}:\${Account}:application/\${AppId}	
<a href="#">datasource</a>	arn:\${Partition}:opensearch:\${Region}:\${Account}:datasource/\${DataSourceName}	

## Condition keys for Amazon OpenSearch

OpenSearch has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

# Actions, resources, and condition keys for Amazon OpenSearch Ingestion

Amazon OpenSearch Ingestion (service prefix: `osis`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon OpenSearch Ingestion](#)
- [Resource types defined by Amazon OpenSearch Ingestion](#)
- [Condition keys for Amazon OpenSearch Ingestion](#)

## Actions defined by Amazon OpenSearch Ingestion

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePipeline</a>	Grants permission to create an OpenSearch Ingestion pipeline	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole iam:PassRole kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kms:GenerateDataKeyWithoutPlaintext  logs:CreateLogDelivery
<a href="#">CreatePipelineEndpoint</a>	Grants permission to create an OpenSearch Ingestion pipeline endpoint	Write	<a href="#">pipeline*</a>	iam:CreateServiceLinkedRole  <a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeletePipeline</a>	Grants permission to delete an OpenSearch Ingestion pipeline	Write	<a href="#">pipeline*</a>		logs:DeleteLogDelivery  logs:GetLogDelivery  logs:ListLogDeliveries

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePipelineEndpoint</a>	Grants permission to delete an OpenSearch Ingestion pipeline endpoint in the current account	Write	<a href="#">pipeline-endpoint*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy for an OpenSearch Ingestion resource	Write	<a href="#">pipeline*</a>		
<a href="#">GetPipeline</a>	Grants permission to retrieve configuration information for an OpenSearch Ingestion pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">GetPipelineBlueprint</a>	Grants permission to get the contents of an OpenSearch Ingestion pipeline blueprint	Read	<a href="#">pipeline-blueprint*</a>		
<a href="#">GetPipelineChangeProgress</a>	Grants permission to get granular information about the status of an OpenSearch Ingestion pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to get a resource policy for an OpenSearch Ingestion resource	Read	<a href="#">pipeline*</a>		
<a href="#">Ingest</a>	Grants permission to ingest data through an OpenSearch Ingestion pipeline	Write	<a href="#">pipeline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPipelineBlueprints</a>	Grants permission to list the names of available blueprints for an OpenSearch Ingestion pipeline configuration	List			
<a href="#">ListPipelineEndpointConnections</a>	Grants permission to list OpenSearch Ingestion pipeline endpoint connections to pipelines in the current account	List			
<a href="#">ListPipelineEndpoints</a>	Grants permission to list OpenSearch Ingestion pipeline endpoints in the current account	List			
<a href="#">ListPipelines</a>	Grants permission to list basic configuration for each OpenSearch Ingestion pipeline in the current account and Region	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all resource tags associated with an OpenSearch Ingestion pipeline	Read	<a href="#">pipeline*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to put a resource policy for an OpenSearch Ingestion resource	Write	<a href="#">pipeline*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokePipelineEndpointConnections</a>	Grants permission to revoke an OpenSearch Ingestion pipeline endpoint connection from a pipeline in the current account	Write	<a href="#">pipeline*</a>		
<a href="#">StartPipeline</a>	Grants permission to start an OpenSearch Ingestion pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">StopPipeline</a>	Grants permission to stop an OpenSearch Ingestion pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">TagResource</a>	Grants permission to attach resource tags to an OpenSearch Ingestion pipeline	Tagging	<a href="#">pipeline*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove resource tags from an OpenSearch Ingestion Service pipeline	Tagging	<a href="#">pipeline*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePipeline</a>	Grants permission to modify the configuration of an OpenSearch Ingestion pipeline	Write	<a href="#">pipeline*</a>		iam:PassRole  kms:DescribeKey  kms:GenerateDataKeyWithoutPlaintext  logs:GetLogDelivery  logs:ListLogDeliveries  logs:UpdateLogDelivery
<a href="#">ValidatePipeline</a>	Grants permission to validate the configuration of an OpenSearch Ingestion pipeline	Read			

## Resource types defined by Amazon OpenSearch Ingestion

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">pipeline</a>	arn:\${Partition}:osis:\${Region}:\${Account}:pipeline/\${PipelineName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">pipeline-endpoint</a>	arn:\${Partition}:osis:\${Region}:\${Account}:endpoint/\${EndpointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">pipeline-blueprint</a>	arn:\${Partition}:osis:\${Region}:\${Account}:blueprint/\${BlueprintName}	

## Condition keys for Amazon OpenSearch Ingestion

Amazon OpenSearch Ingestion defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

# Actions, resources, and condition keys for Amazon OpenSearch Serverless

Amazon OpenSearch Serverless (service prefix: aoss) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon OpenSearch Serverless](#)
- [Resource types defined by Amazon OpenSearch Serverless](#)
- [Condition keys for Amazon OpenSearch Serverless](#)

## Actions defined by Amazon OpenSearch Serverless

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">APIAccessAll</a>	Grant permission to all the supported OpenSearch APIs	Write	<a href="#">Collection*</a>		
				<a href="#">aoss:collection</a>	
				<a href="#">aoss:CollectionId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddCollectionToCollectionGroup</a>	Grants permission to add a serverless collection to a specified collection group	Write	<a href="#">CollectionGroup*</a>		
				<a href="#">aoss:collection-group</a>	
<a href="#">BatchGetCollection</a>	Grants permission to get attributes for one or more collections	Read		<a href="#">aoss:collection</a>	
<a href="#">BatchGetCollectionGroup</a>	Grants permission to get attributes for one or more collection groups	Read		<a href="#">aoss:collection-group</a>	
<a href="#">BatchGetEffectiveLifecyclePolicy</a>	Grants permission to get the information about a lifecycle policy applied to one or more AOSS resources	Read			
<a href="#">BatchGetLifecyclePolicy</a>	Grants permission to get information about one or more lifecycle policies	Read			
<a href="#">BatchGetVpcEndpoint</a>	Grants permission to get attributes for one or more VPC endpoints	Read			
<a href="#">CreateAccessPolicy</a>	Grants permission to create a data access policy	Write		<a href="#">aoss:collection</a> <a href="#">aoss:index</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCollection</a>	Grants permission to create a serverless collection	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCollectionGroup</a>	Grants permission to create a serverless collection group	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateIndex</a>	Grants permission to create an opensearch index	Write			
<a href="#">CreateLifecyclePolicy</a>	Grants permission to create a lifecycle policy	Write		<a href="#">aoss:index</a>	
<a href="#">CreateSecurityConfig</a>	Grants permission to create a serverless security configuration	Write			
<a href="#">CreateSecurityPolicy</a>	Grants permission to create a network or encryption policy	Write		<a href="#">aoss:collection</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVpcEndpoint</a>	Grants permission to create an OpenSearch-Serverless-managed interface VPC endpoint	Write			
<a href="#">DashboardAccessAll</a>	Grants permission to Opensearch Serverless Dashboards	Write	<a href="#">Dashboards*</a>	<a href="#">aoss:collection</a> <a href="#">aoss:CollectionId</a>	
<a href="#">DeleteAccessPolicy</a>	Grants permission to delete a data access policy	Write		<a href="#">aoss:collection</a> <a href="#">aoss:index</a>	
<a href="#">DeleteCollection</a>	Grants permission to delete a serverless collection	Write	<a href="#">Collection*</a>		
<a href="#">DeleteCollectionGroup</a>	Grants permission to delete a serverless collection group	Write	<a href="#">CollectionGroup*</a>		
<a href="#">DeleteIndex</a>	Grants permission to delete an opensearch index	Write			
<a href="#">DeleteLifecyclePolicy</a>	Grants permission to delete a lifecycle policy	Write		<a href="#">aoss:index</a>	
<a href="#">DeleteSecurityConfig</a>	Grants permission to delete a security configuration	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSecurityPolicy</a>	Grants permission to delete a security policy	Write		<a href="#">aoss:collection</a>	
<a href="#">DeleteVpcEndpoint</a>	Grants permission to delete an OpenSearch Serverless-managed interface VPC endpoint	Write			
<a href="#">GetAccessPolicy</a>	Grants permission to get information about a data access policy	Read		<a href="#">aoss:collection</a> <a href="#">aoss:index</a>	
<a href="#">GetAccountSettings</a>	Grants permission to get account settings, including capacity settings	Read			
<a href="#">GetIndex</a>	Grants permission to get an opensearch index	Read			
<a href="#">GetPoliciesStats</a>	Grants permission to get statistics about the security policies in your account	Read			
<a href="#">GetSecurityConfig</a>	Grants permission to get information about a serverless security configuration	Read			
<a href="#">GetSecurityPolicy</a>	Grants permission to get information about a security policy	Read		<a href="#">aoss:collection</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccessPolicies</a>	Grants permission to list data access policies	List			
<a href="#">ListCollectionGroups</a>	Grants permission to list collection groups	List			
<a href="#">ListCollections</a>	Grants permission to list collections	List			
<a href="#">ListLifecyclePolicies</a>	Grants permission to list lifecycle policies	List			
<a href="#">ListSecurityConfigs</a>	Grants permission to list security configurations	List			
<a href="#">ListSecurityPolicies</a>	Grants permission to list security policies	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a collection	List			
<a href="#">ListVpcEndpoints</a>	Grants permission to list OpenSearch Serverless-managed VPC endpoints	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a serverless collection	Write		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a collection	Write		<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessPolicy</a>	Grants permission to update a data access policy	Write		<a href="#">aoss:collection</a> <a href="#">aoss:index</a>	
<a href="#">UpdateAccountSettings</a>	Grants permission to update account settings, including capacity settings	Write			
<a href="#">UpdateCollection</a>	Grants permission to update a collection	Write	<a href="#">Collection*</a>		
<a href="#">UpdateCollectionGroup</a>	Grants permission to update a collection group	Write	<a href="#">CollectionGroup*</a>		
<a href="#">UpdateIndex</a>	Grants permission to update an opensearch index	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLifecyclePolicy</a>	Grants permission to update a lifecycle policy	Write		<a href="#">aoss:index</a>	
<a href="#">UpdateSecurityConfig</a>	Grants permission to update a security configuration	Write			
<a href="#">UpdateSecurityPolicy</a>	Grants permission to update a security policy	Write		<a href="#">aoss:collection</a>	
<a href="#">UpdateVpcEndpoint</a>	Grants permission to update an OpenSearch Serverless-managed VPC endpoint	Write			

## Resource types defined by Amazon OpenSearch Serverless

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Collection</a>	arn:\${Partition}:aoss:\${Region}:\${Account}:collection/\${CollectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">CollectionGroup</a>	arn:\${Partition}:aoss:\${Region}:\${Account}:collection-group/\${CollectionGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Dashboards</a>	arn:\${Partition}:aoss:\${Region}:\${Account}:dashboards/default	

## Condition keys for Amazon OpenSearch Serverless

Amazon OpenSearch Serverless defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aoss:CollectionId</a>	Filters access by the identifier of the collection	String
<a href="#">aoss:collection</a>	Filters access by the collection name	String
<a href="#">aoss:collection-group</a>	Filters access by the collection group name	String
<a href="#">aoss:index</a>	Filters access by the index	String
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon OpenSearch Service

Amazon OpenSearch Service (service prefix: es) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon OpenSearch Service](#)
- [Resource types defined by Amazon OpenSearch Service](#)
- [Condition keys for Amazon OpenSearch Service](#)

## Actions defined by Amazon OpenSearch Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptInboundConnection</a>	Grants permission to the destination domain owner to accept an inbound cross-cluster search connection request	Write			
<a href="#">AcceptInboundCrossClusterSearch</a>	Grants permission to the destination domain owner to accept an inbound cross-cluster search connection	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">archConnection</a>	request. This permission is deprecated. Use AcceptInboundConnection instead				
<a href="#">AddDataSource</a>	Grants permission to add the data source for the OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">AddDirectQueryDataSource</a>	Grants permission to add the data source for the provided OpenSearch arns	Write	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AddTags</a>	Grants permission to attach resource tags to an OpenSearch Service domain, data source, or application	Tagging	<a href="#">application*</a>		
			<a href="#">datasource*</a>		
			<a href="#">domain*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Package</a>	Grants permission to associate a package with an OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">Associate Packages</a>	Grants permission to associate multiple packages with an OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">Authorize VpcEndpointAccess</a>	Grants permission to provide access to an Amazon OpenSearch Service domain through the use of an interface VPC endpoint	Write			
<a href="#">CancelDomainConfigChange</a>	Grants permission to cancel a change on an OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">CancelElasticsearchServiceSoftwareUpdate</a>	Grants permission to cancel a service software update of a domain. This permission is deprecated. Use CancelServiceSoftwareUpdate instead	Write	<a href="#">domain*</a>		
<a href="#">CancelServiceSoftwareUpdate</a>	Grants permission to cancel a service software update of a domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create an OpenSearch Application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDomain</a>	Grants permission to create an Amazon OpenSearch Service domain	Write	<a href="#">domain</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateElasticsearchDomain</a>	Grants permission to create an OpenSearch Service domain. This permission is deprecated. Use CreateDomain instead	Write	<a href="#">domain</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateElasticsearchServiceRole</a>	Grants permission to create the service-linked role required for OpenSearch Service domains that use VPC access. This permission is deprecated. OpenSearch Service creates the service-linked role for you	Write			
<a href="#">CreateIndex</a>	Grants permission to create index for the OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">CreateOutboundConnection</a>	Grants permission to create a new cross-cluster search connection from a source domain to a destination domain	Write	<a href="#">domain*</a>		
<a href="#">CreateOutboundCrossClusterSearchConnection</a>	Grants permission to create a new cross-cluster search connection from a source domain to a destination domain. This permission is deprecated. Use CreateOutboundConnection instead	Write	<a href="#">domain*</a>		
<a href="#">CreatePackage</a>	Grants permission to add a package for use with OpenSearch Service domains	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServiceRole</a>	Grants permission to create the service-linked role required for Amazon OpenSearch Service domains that use VPC access	Write			
<a href="#">CreateVpcEndpoint</a>	Grants permission to create an Amazon OpenSearch Service-managed VPC endpoint	Write			
<a href="#">DeleteApplication</a>	Grants permission to delete an OpenSearch Application	Write	<a href="#">application*</a>		
<a href="#">DeleteDataSource</a>	Grants permission to delete the data source for the OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteDirectQueryDataSource</a>	Grants permission to delete the data source for the provided OpenSearch domains	Write	<a href="#">datasource*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete an Amazon OpenSearch Service domain and all of its data	Write	<a href="#">domain*</a>		
<a href="#">DeleteElasticsearchDomain</a>	Grants permission to delete an OpenSearch Service domain and all of its data. This permission is deprecated. Use DeleteDomain instead	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteElasticsearchServiceRole</a>	Grants permission to delete the service-linked role required for OpenSearch Service domains that use VPC access. This permission is deprecated. Use the IAM API to delete service-linked roles	Write			
<a href="#">DeleteInboundConnection</a>	Grants permission to the destination domain owner to delete an existing inbound cross-cluster search connection	Write			
<a href="#">DeleteInboundCrossClusterSearchConnection</a>	Grants permission to the destination domain owner to delete an existing inbound cross-cluster search connection. This permission is deprecated. Use DeleteInboundConnection instead	Write			
<a href="#">DeleteIndex</a>	Grants permission to delete Index for the OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteOutboundConnection</a>	Grants permission to the source domain owner to delete an existing outbound cross-cluster search connection	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOutboundCrossClusterSearchConnection</a>	Grants permission to the source domain owner to delete an existing outbound cross-cluster search connection. This permission is deprecated. Use DeleteOutboundConnection instead	Write			
<a href="#">DeletePackage</a>	Grants permission to delete a package from OpenSearch Service. The package cannot be associated with any domains	Write			
<a href="#">DeleteVpcEndpoint</a>	Grants permission to delete an Amazon OpenSearch Service-managed interface VPC endpoint	Write			
<a href="#">DescribeDomain</a>	Grants permission to view a description of the domain configuration for the specified OpenSearch Service domain, including the domain ID, service endpoint, and ARN	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomainAutoTunes</a>	Grants permission to view the Auto-Tune configuration of the domain for the specified OpenSearch Service domain, including the Auto-Tune state and maintenance schedules	Read	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDomainChangeProgress</a>	Grants permission to view detail stage progress of an OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomainConfig</a>	Grants permission to view a description of the configuration options and status of an OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomainHealth</a>	Grants permission to view information about domain and node health, the standby Availability Zone, number of nodes per Availability Zone, and shard count per node	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomainNodes</a>	Grants permission to view information about nodes configured for the domain and their configurations- the node id, type of node, status of node, Availability Zone, instance type and storage	Read	<a href="#">domain*</a>		
<a href="#">DescribeDomains</a>	Grants permission to view a description of the domain configuration for up to five specified OpenSearch Service domains	List	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDyRunProgress</a>	Grants permission to describe the status of a pre-update validation check on an OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeElasticsearchDomain</a>	Grants permission to view a description of the domain configuration for the specified OpenSearch Service domain, including the domain ID, service endpoint, and ARN. This permission is deprecated. Use DescribeDomain instead	Read	<a href="#">domain*</a>		
<a href="#">DescribeElasticsearchDomainConfig</a>	Grants permission to view a description of the configuration and status of an OpenSearch Service domain. This permission is deprecated. Use DescribeDomainConfig instead	Read	<a href="#">domain*</a>		
<a href="#">DescribeElasticsearchDomains</a>	Grants permission to view a description of the domain configuration for up to five specified Amazon OpenSearch domains. This permission is deprecated. Use DescribeDomains instead	List	<a href="#">domain*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeElasticsearchInstanceTypeLimits</a>	Grants permission to view the instance count, storage, and master node limits for a given OpenSearch version and instance type. This permission is deprecated. Use DescribeInstanceTypeLimits instead	List			
<a href="#">DescribeInboundConnections</a>	Grants permission to list all the inbound cross-cluster search connections for a destination domain	List			
<a href="#">DescribeInboundCrossClusterSearchConnections</a>	Grants permission to list all the inbound cross-cluster search connections for a destination domain. This permission is deprecated. Use DescribeInboundConnections instead	List			
<a href="#">DescribeInsightDetails</a>	Grants permission to view detailed information about insights for an OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeInstanceTypeLimits</a>	Grants permission to view the instance count, storage, and master node limits for a given engine version and instance type	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeOutboundConnections</a>	Grants permission to list all the outbound cross-cluster search connections for a source domain	List			
<a href="#">DescribeOutboundCrossClusterSearchConnections</a>	Grants permission to list all the outbound cross-cluster search connections for a source domain. This permission is deprecated. Use DescribeOutboundConnections instead	List			
<a href="#">DescribePackages</a>	Grants permission to describe all packages available to OpenSearch Service domains	Read			
<a href="#">DescribeReservedElasticsearchInstanceOfferings</a>	Grants permission to fetch Reserved Instance offerings for Amazon OpenSearch Service. This permission is deprecated. Use DescribeReservedInstanceOfferings instead	List			
<a href="#">DescribeReservedElasticsearchInstances</a>	Grants permission to fetch OpenSearch Service Reserved Instances that have already been purchased. This permission is deprecated. Use DescribeReservedInstances instead	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeReservedInstanceOfferings</a>	Grants permission to fetch Reserved Instance offerings for OpenSearch Service	List			
<a href="#">DescribeReservedInstances</a>	Grants permission to fetch OpenSearch Service Reserved Instances that have already been purchased	List			
<a href="#">DescribeVpcEndpoints</a>	Grants permission to describe one or more Amazon OpenSearch Service-managed VPC endpoints	List			
<a href="#">DissociatePackage</a>	Grants permission to disassociate a package from the specified OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">DissociatePackages</a>	Grants permission to disassociate multiple packages from the specified OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">ElasticsearchCrossClusterGet</a>	Grants permission to send cross-cluster requests to a destination domain	Read	<a href="#">domain</a>		
<a href="#">ElasticsearchDelete</a>	Grants permission to send HTTP DELETE requests to the OpenSearch APIs	Write	<a href="#">domain</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ESHttpGet</a>	Grants permission to send HTTP GET requests to the OpenSearch APIs	Read	<a href="#">domain</a>		
<a href="#">ESHttpHead</a>	Grants permission to send HTTP HEAD requests to the OpenSearch APIs	Read	<a href="#">domain</a>		
<a href="#">ESHttpPatch</a>	Grants permission to send HTTP PATCH requests to the OpenSearch APIs	Write	<a href="#">domain</a>		
<a href="#">ESHttpPost</a>	Grants permission to send HTTP POST requests to the OpenSearch APIs	Write	<a href="#">domain</a>		
<a href="#">ESHttpPut</a>	Grants permission to send HTTP PUT requests to the OpenSearch APIs	Write	<a href="#">domain</a>		
<a href="#">GetApplication</a>	Grants permission to get information about an OpenSearch Application	Read	<a href="#">application*</a>		
<a href="#">GetCompatibleElasticsearchVersions</a>	Grants permission to fetch a list of compatible OpenSearch and Elasticsearch versions to which an OpenSearch Service domain can be upgraded. This permission is deprecated. Use <code>GetCompatibleVersions</code> instead	List	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCompatibleVersions</a>	Grants permission to fetch list of compatible engine versions to which an OpenSearch Service domain can be upgraded	List	<a href="#">domain*</a>		
<a href="#">GetDataSource</a>	Grants permission to get the data source for the OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">GetDefaultApplicationSetting</a>	Grants permission to get the default application setting for OpenSearch Service	Read	<a href="#">application*</a>		
<a href="#">GetDirectQueryDataSource</a>	Grants permission to get the data source for the provided OpenSearch arns	Read	<a href="#">datasource*</a>		
<a href="#">GetDomainMaintenanceStatus</a>	Grants permission to retrieve the status of maintenance action for the node	Read	<a href="#">domain*</a>		
<a href="#">GetIndex</a>	Grants permission to get index for the OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">GetPackageVersionHistory</a>	Grants permission to fetch the version history for a package	Read			
<a href="#">GetUpgradeHistory</a>	Grants permission to fetch the upgrade history of a given OpenSearch Service domain	Read	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUpgradeStatus</a>	Grants permission to fetch the upgrade status of a given OpenSearch Service domain	Read	<a href="#">domain*</a>		
<a href="#">ListApplications</a>	Grants permission to list OpenSearch Applications	List	<a href="#">application*</a>		
<a href="#">ListDataSources</a>	Grants permission to retrieve a list of data source for the OpenSearch Service domain	List	<a href="#">domain*</a>		
<a href="#">ListDirectQueryDataSources</a>	Grants permission to retrieve a list of data source for the provided OpenSearch arns	List	<a href="#">datasource*</a>		
<a href="#">ListDomainMaintenance</a>	Grants permission to retrieve a list of maintenance actions for the OpenSearch Service domain	List	<a href="#">domain*</a>		
<a href="#">ListDomainNames</a>	Grants permission to display the names of all OpenSearch Service domains that the current user owns	List			
<a href="#">ListDomainsForPackage</a>	Grants permission to list all OpenSearch Service domains that a package is associated with	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListElasticsearchInstanceTypeDetails</a>	Grants permission to list all instance types and available features for a given OpenSearch version. This permission is deprecated. Use ListInstanceTypeDetails instead	List			
<a href="#">ListElasticsearchInstanceTypes</a>	Grants permission to list all EC2 instance types that are supported for a given OpenSearch version	List			
<a href="#">ListElasticsearchVersions</a>	Grants permission to list all supported OpenSearch versions on Amazon OpenSearch Service. This permission is deprecated. Use ListVersions instead	List			
<a href="#">ListInsights</a>	Grants permission to list insights for OpenSearch Service domains in the account	List	<a href="#">domain</a>		
<a href="#">ListInstanceTypeDetails</a>	Grants permission to list all instance types and available features for a given OpenSearch or Elasticsearch version	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPackagesForDomain</a>	Grants permission to list all packages associated with the OpenSearch Service domain	List	<a href="#">domain*</a>		
<a href="#">ListScheduledActions</a>	Grants permission to retrieve a list of configuration changes that are scheduled for a OpenSearch Service domain	List	<a href="#">domain*</a>		
<a href="#">ListTags</a>	Grants permission to display all resource tags for an OpenSearch Service domain, data source, or application	Read	<a href="#">application*</a>		
			<a href="#">datasource*</a>		
			<a href="#">domain*</a>		
<a href="#">ListVersions</a>	Grants permission to list all supported OpenSearch and Elasticsearch versions in Amazon OpenSearch Service	List			
<a href="#">ListVpcEndpointAccess</a>	Grants permission to retrieve information about each AWS principal that is allowed to access a given Amazon OpenSearch Service domain through the use of an interface VPC endpoint	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListVpcEndpoints</a>	Grants permission to retrieve all Amazon OpenSearch Service-managed VPC endpoints in the current AWS account and Region	List			
<a href="#">ListVpcEndpointsForDomain</a>	Grants permission to retrieve all Amazon OpenSearch Service-managed VPC endpoints associated with a particular domain	List			
<a href="#">PurchaseReservedElasticsearchInstanceOffering</a>	Grants permission to purchase OpenSearch Service Reserved Instances. This permission is deprecated. Use PurchaseReservedInstanceOffering instead	Write			
<a href="#">PurchaseReservedInstanceOffering</a>	Grants permission to purchase OpenSearch reserved instances	Write			
<a href="#">PutDefaultApplicationSetting</a>	Grants permission to set or remove the default application setting for OpenSearch Service	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectInboundConnection</a>	Grants permission to the destination domain owner to reject an inbound cross-cluster search connection request	Write			
<a href="#">RejectInboundCrossClusterSearchConnection</a>	Grants permission to the destination domain owner to reject an inbound cross-cluster search connection request. This permission is deprecated. Use <a href="#">RejectInboundConnection</a> instead	Write			
<a href="#">RemoveTags</a>	Grants permission to remove resource tags from an OpenSearch Service domain, data source, or application	Tagging	<a href="#">application*</a>		
			<a href="#">datasource*</a>		
			<a href="#">domain*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">RevokeVpcEndpointAccess</a>	Grants permission to revoke access to an Amazon OpenSearch Service domain that was provided through an interface VPC endpoint	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RollbackElasticsearchServiceSoftwareUpdate</a>	Grants permission to rollback a service software update of an elasticsearch domain to its previous version	Write	<a href="#">domain*</a>		
<a href="#">RollbackServiceSoftwareUpdate</a>	Grants permission to rollback a service software update of an opensearch domain to its previous version	Write	<a href="#">domain*</a>		
<a href="#">StartDomainMaintenance</a>	Grants permission to initiate the maintenance on the node	Write	<a href="#">domain*</a>		
<a href="#">StartElasticsearchServiceSoftwareUpdate</a>	Grants permission to start a service software update of a domain. This permission is deprecated. Use StartServiceSoftwareUpdate instead	Write	<a href="#">domain*</a>		
<a href="#">StartServiceSoftwareUpdate</a>	Grants permission to start a service software update of a domain	Write	<a href="#">domain*</a>		
<a href="#">UpdateApplication</a>	Grants permission to update an OpenSearch Application	Write	<a href="#">application*</a>		
<a href="#">UpdateDataSource</a>	Grants permission to update the data source for the OpenSearch Service domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDirectQueryDataSource</a>	Grants permission to update the data source for the provided OpenSearch arns	Write	<a href="#">datasource*</a>		
<a href="#">UpdateDomainConfig</a>	Grants permission to modify the configuration of an OpenSearch Service domain, such as the instance type or number of instances	Write	<a href="#">domain*</a>		
<a href="#">UpdateElasticsearchDomainConfig</a>	Grants permission to modify the configuration of an OpenSearch Service domain, such as the instance type or number of instances. This permission is deprecated. Use UpdateDomainConfig instead	Write	<a href="#">domain*</a>		
<a href="#">UpdateIndex</a>	Grants permission to update index for the OpenSearch Service domain	Write	<a href="#">domain*</a>		
<a href="#">UpdatePackage</a>	Grants permission to update a package for use with OpenSearch Service domains	Write			
<a href="#">UpdatePackageScope</a>	Grants permission to update scope a package	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateScheduledAction</a>	Grants permission to reschedule a planned OpenSearch Service domain configuration change for a later time	Write	<a href="#">domain*</a>		
<a href="#">UpdateVpcEndpoint</a>	Grants permission to modify an Amazon OpenSearch Service-managed interface VPC endpoint	Write			
<a href="#">UpgradeDomain</a>	Grants permission to initiate upgrade of an OpenSearch Service domain to a given version	Write	<a href="#">domain*</a>		
<a href="#">UpgradeElasticsearchDomain</a>	Grants permission to initiate upgrade of an OpenSearch Service domain to a specified version. This permission is deprecated. Use UpgradeDomain instead	Write	<a href="#">domain*</a>		

## Resource types defined by Amazon OpenSearch Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:es:\${Region}:\${Account}:domain/\${DomainName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application</a>	arn:\${Partition}:opensearch:\${Region}:\${Account}:application/\${AppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">es_role</a>	arn:\${Partition}:iam::\${Account}:role/aws-service-role/es.amazonaws.com/AWSServiceRoleForAmazonOpenSearchService	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">opensearchservice_role</a>	arn:\${Partition}:iam::\${Account}:role/aws-service-role/opensearchservice.amazonaws.com/AWSServiceRoleForAmazonOpenSearchService	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">datasource</a>	arn:\${Partition}:opensearch:\${Region}:\${Account}:datasource/\${DataSourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon OpenSearch Service

Amazon OpenSearch Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS OpsWorks

AWS OpsWorks (service prefix: `opsworks`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS OpsWorks](#)
- [Resource types defined by AWS OpsWorks](#)
- [Condition keys for AWS OpsWorks](#)

## Actions defined by AWS OpsWorks

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssignInstance</a>	Grants permission to assign a registered instance to a layer	Write	<a href="#">stack</a>		
<a href="#">AssignVolume</a>	Grants permission to assign one of the stack's registered Amazon EBS volumes to a specified instance	Write	<a href="#">stack</a>		
<a href="#">AssociateElasticIp</a>	Grants permission to associate one of the stack's registered Elastic IP addresses with a specified instance	Write	<a href="#">stack</a>		
<a href="#">AttachElasticLoadBalancer</a>	Grants permission to attach an Elastic Load Balancing load balancer to a specified layer	Write	<a href="#">stack</a>		
<a href="#">CloneStack</a>	Grants permission to create a clone of a specified stack	Write	<a href="#">stack</a>		
<a href="#">CreateApp</a>	Grants permission to create an app for a specified stack	Write	<a href="#">stack</a>		
<a href="#">CreateDeployment</a>	Grants permission to run deployment or stack commands	Write	<a href="#">stack</a>		
<a href="#">CreateInstance</a>	Grants permission to create an instance in a specified stack	Write	<a href="#">stack</a>		
<a href="#">CreateLayer</a>	Grants permission to create a layer	Write	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStack</a>	Grants permission to create a new stack	Write			
<a href="#">CreateUserProfile</a>	Grants permission to create a new user profile	Write			
<a href="#">DeleteApp</a>	Grants permission to delete a specified app	Write	<a href="#">stack</a>		
<a href="#">DeleteInstance</a>	Grants permission to delete a specified instance, which terminates the associated Amazon EC2 instance	Write	<a href="#">stack</a>		
<a href="#">DeleteLayer</a>	Grants permission to delete a specified layer	Write	<a href="#">stack</a>		
<a href="#">DeleteStack</a>	Grants permission to delete a specified stack	Write	<a href="#">stack</a>		
<a href="#">DeleteUserProfile</a>	Grants permission to delete a user profile	Write			
<a href="#">DeregisterEcsCluster</a>	Grants permission to delete a user profile	Write	<a href="#">stack</a>		
<a href="#">DeregisterElasticIp</a>	Grants permission to deregister a specified Elastic IP address	Write	<a href="#">stack</a>		
<a href="#">DeregisterInstance</a>	Grants permission to deregister a registered Amazon EC2 or on-premises instance	Write	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterRdsDbInstance</a>	Grants permission to deregister an Amazon RDS instance	Write	<a href="#">stack</a>		
<a href="#">DeregisterVolume</a>	Grants permission to deregister an Amazon EBS volume	Write	<a href="#">stack</a>		
<a href="#">DescribeAgentVersions</a>	Grants permission to describe the available AWS OpsWorks agent versions	List	<a href="#">stack</a>		
<a href="#">DescribeApps</a>	Grants permission to request a description of a specified set of apps	List	<a href="#">stack</a>		
<a href="#">DescribeCommands</a>	Grants permission to describe the results of specified commands	List	<a href="#">stack</a>		
<a href="#">DescribeDeployments</a>	Grants permission to request a description of a specified set of deployments	List	<a href="#">stack</a>		
<a href="#">DescribeEcsClusters</a>	Grants permission to describe Amazon ECS clusters that are registered with a stack	List	<a href="#">stack</a>		
<a href="#">DescribeElasticIps</a>	Grants permission to describe Elastic IP addresses	List	<a href="#">stack</a>		
<a href="#">DescribeElasticLoadBalancers</a>	Grants permission to describe a stack's Elastic Load Balancing instances	List	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInstances</a>	Grants permission to request a description of a set of instances	List	<a href="#">stack</a>		
<a href="#">DescribeLayers</a>	Grants permission to request a description of one or more layers in a specified stack	List	<a href="#">stack</a>		
<a href="#">DescribeLoadBasedAutoScaling</a>	Grants permission to describe load-based auto scaling configurations for specified layers	List	<a href="#">stack</a>		
<a href="#">DescribeMyUserProfile</a>	Grants permission to describe a user's SSH information	List			
<a href="#">DescribeOperatingSystems</a>	Grants permission to describe the operating systems that are supported by AWS OpsWorks Stacks	List			
<a href="#">DescribePermissions</a>	Grants permission to describe the permissions for a specified stack	List	<a href="#">stack</a>		
<a href="#">DescribeRAIDArrays</a>	Grants permission to describe an instance's RAID arrays	List	<a href="#">stack</a>		
<a href="#">DescribeRDSInstances</a>	Grants permission to describe Amazon RDS instances	List	<a href="#">stack</a>		
<a href="#">DescribeServiceErrors</a>	Grants permission to describe AWS OpsWorks service errors	List	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStackProvisioningParameters</a>	Grants permission to request a description of a stack's provisioning parameters	List	<a href="#">stack</a>		
<a href="#">DescribeStackSummary</a>	Grants permission to describe the number of layers and apps in a specified stack, and the number of instances in each state, such as running_setup or online	List	<a href="#">stack</a>		
<a href="#">DescribeStacks</a>	Grants permission to request a description of one or more stacks	List	<a href="#">stack</a>		
<a href="#">DescribeTimeBasedAutoScaling</a>	Grants permission to describe time-based auto scaling configurations for specified instances	List	<a href="#">stack</a>		
<a href="#">DescribeUserProfiles</a>	Grants permission to describe specified users	List			
<a href="#">DescribeVolumes</a>	Grants permission to describe an instance's Amazon EBS volumes	List	<a href="#">stack</a>		
<a href="#">DetachElasticLoadBalancer</a>	Grants permission to detach a specified Elastic Load Balancing instance from its layer	Write	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateElasticIp</a>	Grants permission to disassociate an Elastic IP address from its instance	Write	<a href="#">stack</a>		
<a href="#">GetHostNameSuggestion</a>	Grants permission to get a generated host name for the specified layer, based on the current host name theme	Read	<a href="#">stack</a>		
<a href="#">GrantAccess</a>	Grants permission to grant RDP access to a Windows instance for a specified time period	Write	<a href="#">stack</a>		
<a href="#">ListTags</a>	Grants permission to return a list of tags that are applied to the specified stack or layer	List	<a href="#">stack</a>		
<a href="#">RebootInstance</a>	Grants permission to reboot a specified instance	Write	<a href="#">stack</a>		
<a href="#">RegisterEcsCluster</a>	Grants permission to register a specified Amazon ECS cluster with a stack	Write	<a href="#">stack</a>		
<a href="#">RegisterElasticIp</a>	Grants permission to register an Elastic IP address with a specified stack	Write	<a href="#">stack</a>		
<a href="#">RegisterInstance</a>	Grants permission to register instances with a specified stack that were created outside of AWS OpsWorks	Write	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterRdsDbInstance</a>	Grants permission to register an Amazon RDS instance with a stack	Write	<a href="#">stack</a>		
<a href="#">RegisterVolume</a>	Grants permission to register an Amazon EBS volume with a specified stack	Write	<a href="#">stack</a>		
<a href="#">SetLoadBasedAutoScaling</a>	Grants permission to specify the load-based auto scaling configuration for a specified layer	Write	<a href="#">stack</a>		
<a href="#">SetPermission</a>	Grants permission to specify a user's permissions	Permissions management	<a href="#">stack</a>		
<a href="#">SetTimeBasedAutoScaling</a>	Grants permission to specify the time-based auto scaling configuration for a specified instance	Write	<a href="#">stack</a>		
<a href="#">StartInstance</a>	Grants permission to start a specified instance	Write	<a href="#">stack</a>		
<a href="#">StartStack</a>	Grants permission to start a stack's instances	Write	<a href="#">stack</a>		
<a href="#">StopInstance</a>	Grants permission to stop a specified instance	Write	<a href="#">stack</a>		
<a href="#">StopStack</a>	Grants permission to stop a specified stack	Write	<a href="#">stack</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to apply tags to a specified stack or layer	Tagging	<a href="#">stack</a>		
<a href="#">UnassignInstance</a>	Grants permission to unassign a registered instance from all of its layers	Write	<a href="#">stack</a>		
<a href="#">UnassignVolume</a>	Grants permission to unassign an assigned Amazon EBS volume	Write	<a href="#">stack</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a specified stack or layer	Tagging	<a href="#">stack</a>		
<a href="#">UpdateApp</a>	Grants permission to update a specified app	Write	<a href="#">stack</a>		
<a href="#">UpdateElasticIp</a>	Grants permission to update a registered Elastic IP address's name	Write	<a href="#">stack</a>		
<a href="#">UpdateInstance</a>	Grants permission to update a specified instance	Write	<a href="#">stack</a>		
<a href="#">UpdateLayer</a>	Grants permission to update a specified layer	Write	<a href="#">stack</a>		
<a href="#">UpdateMyUserProfile</a>	Grants permission to update a user's SSH public key	Write			
<a href="#">UpdateRdsDbInstance</a>	Grants permission to update an Amazon RDS instance	Write	<a href="#">stack</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateStack</a>	Grants permission to update a specified stack	Write	<a href="#">stack</a>		
<a href="#">UpdateUserProfile</a>	Grants permission to update a specified user profile	Permissions management			
<a href="#">UpdateVolume</a>	Grants permission to update an Amazon EBS volume's name or mount point	Write	<a href="#">stack</a>		

## Resource types defined by AWS OpsWorks

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">stack</a>	arn:\${Partition}:opsworks:\${Region}:\${Account}:stack/\${StackId}/	

## Condition keys for AWS OpsWorks

OpsWorks has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

# Actions, resources, and condition keys for AWS OpsWorks Configuration Management

AWS OpsWorks Configuration Management (service prefix: `opsworks-cm`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS OpsWorks Configuration Management](#)
- [Resource types defined by AWS OpsWorks Configuration Management](#)
- [Condition keys for AWS OpsWorks Configuration Management](#)

## Actions defined by AWS OpsWorks Configuration Management

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Node</a>	Grants permission to associate a node to a configuration management server	Write			
<a href="#">CreateBackup</a>	Grants permission to create a backup for the specified server	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServer</a>	Grants permission to create a new server	Write			
<a href="#">DeleteBackup</a>	Grants permission to delete the specified backup and possibly its S3 bucket	Write			
<a href="#">DeleteServer</a>	Grants permission to delete the specified server with its corresponding CloudFormation stack and possibly the S3 bucket	Write			
<a href="#">DescribeAccountAttributes</a>	Grants permission to describe the service limits for the user's account	List			
<a href="#">DescribeBackups</a>	Grants permission to describe a single backup, all backups of a specified server or all backups of the user's account	List			
<a href="#">DescribeEvents</a>	Grants permission to describe all events of the specified server	List			
<a href="#">DescribeNodeAssociationStatus</a>	Grants permission to describe the association status for the specified node token and the specified server	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeServers</a>	Grants permission to describe the specified server or all servers of the user's account	List			
<a href="#">DisassociateNode</a>	Grants permission to disassociate a specified node from a server	Write			
<a href="#">ExportServerEngineAttribute</a>	Grants permission to export an engine attribute from a server	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that are applied to the specified server or backup	Read			
<a href="#">RestoreServer</a>	Grants permission to apply a backup to specified server. Possibly swaps out the ec2-instance if specified	Write			
<a href="#">StartMaintenance</a>	Grants permission to start the server maintenance immediately	Write			
<a href="#">TagResource</a>	Grants permission to apply tags to the specified server or backup	Tagging			
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified server or backup	Tagging			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateServer</a>	Grants permission to update general server settings	Write			
<a href="#">UpdateServerEngineAttributes</a>	Grants permission to update server settings specific to the configuration management type	Write			

## Resource types defined by AWS OpsWorks Configuration Management

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
server	arn:\${Partition}:opsworks-cm::\${Account}:server/\${ServerName}/\${UniqueId}	
backup	arn:\${Partition}:opsworks-cm::\${Account}:backup/\${ServerName}-{Date-and-Time-Stamp-of-Backup}	

## Condition keys for AWS OpsWorks Configuration Management

OpsworksCM has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Organizations

AWS Organizations (service prefix: `organizations`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Organizations](#)
- [Resource types defined by AWS Organizations](#)
- [Condition keys for AWS Organizations](#)

## Actions defined by AWS Organizations

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptHandshake</a>	Grants permission to send a response to the originator of a handshake agreeing to the action proposed by the handshake request	Write	<a href="#">handshake</a> *		iam:CreateServiceLinkedRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachPolicy</a>	Grants permission to attach a policy to a root, an organizational unit, or an individual account	Write	<a href="#">policy*</a> <a href="#">account</a> <a href="#">organizationalunit</a> <a href="#">root</a>	<a href="#">organizations:PolicyType</a>	
<a href="#">CancelHandshake</a>	Grants permission to cancel a handshake	Write	<a href="#">handshake*</a>		
<a href="#">CloseAccount</a>	Grants permission to close an AWS account that is now a part of an Organizations, either created within the organization, or invited to join the organization	Write	<a href="#">account*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccount</a>	Grants permission to create an AWS account that is automatically a member of the organization with the credentials that made the request	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateGovCloudAccount</a>	Grants permission to create an AWS GovCloud (US) account	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOrganization</a>	Grants permission to create an organization. The account with the credentials that calls the CreateOrganization operation automatically becomes the management account of the new organization	Write			iam:CreateServiceLinkedRole
<a href="#">CreateOrganizationalUnit</a>	Grants permission to create an organizational unit (OU) within a root or parent OU	Write	<a href="#">organizationalunit</a>		
			<a href="#">root</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePolicy</a>	Grants permission to create a policy that you can attach to a root, an organizational unit (OU), or an individual AWS account	Write		<a href="#">organizations:PolicyType</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeclineHandshake</a>	Grants permission to decline a handshake request. This sets the handshake state to DECLINED and effectively deactivates the request	Write	<a href="#">handshake*</a>		
<a href="#">DeleteOrganization</a>	Grants permission to delete the organization	Write			
<a href="#">DeleteOrganizationalUnit</a>	Grants permission to delete an organizational unit from a root or another OU	Write	<a href="#">organizationalunit*</a>		
<a href="#">DeletePolicy</a>	Grants permission to delete a policy from your organization	Write	<a href="#">policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy from your organization	Write		<a href="#">organizations:PolicyType</a>	
<a href="#">DeregisterDelegatedAdministrator</a>	Grants permission to deregister the specified member AWS account as a delegated administrator for the AWS service that is specified by ServicePrincipal	Write	<a href="#">account*</a>	<a href="#">organizations:ServicePrincipal</a>	
<a href="#">DescribeAccount</a>	Grants permission to retrieve Organizations-related details about the specified account	Read	<a href="#">account*</a>		
<a href="#">DescribeCreateAccountStatus</a>	Grants permission to retrieve the current status of an asynchronous request to create an account	Read			
<a href="#">DescribeEffectivePolicy</a>	Grants permission to retrieve the effective policy for an account	Read	<a href="#">account*</a>	<a href="#">organizations:PolicyType</a>	
<a href="#">DescribeHandshake</a>	Grants permission to retrieve details about a previously requested handshake	Read	<a href="#">handshake*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeOrganization</a>	Grants permission to retrieve details about the organization that the calling credentials belong to	Read			
<a href="#">DescribeOrganizationalUnit</a>	Grants permission to retrieve details about an organizational unit (OU)	Read	<a href="#">organizationalunit*</a>		
<a href="#">DescribePolicy</a>	Grants permission to retrieve details about a policy	Read	<a href="#">policy*</a>	<a href="#">organizations:PolicyType</a>	
<a href="#">DescribeResourcePolicy</a>	Grants permission to retrieve information about a resource policy	Read			
<a href="#">DescribeResponsibilityTransfer</a>	Grants permission to retrieve details about a previously responsibility transfer	Read	<a href="#">responsibilitytransfer*</a>	<a href="#">organizations:TransferType</a> <a href="#">organizations:TransferDirection</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachPolicy</a>	Grants permission to detach a policy from a target root, organizational unit, or account	Write	<a href="#">policy*</a>		
			<a href="#">account</a>		
			<a href="#">organizationalunit</a>		
			<a href="#">root</a>		
				<a href="#">organizations:PolicyType</a>	
<a href="#">DisableAWSServiceAccess</a>	Grants permission to disable integration of an AWS service (the service that is specified by ServicePrincipal) with AWS Organizations	Write		<a href="#">organizations:ServicePrincipal</a>	
<a href="#">DisablePolicyType</a>	Grants permission to disable an organization policy type in a root	Write	<a href="#">root*</a>		
				<a href="#">organizations:PolicyType</a>	
<a href="#">EnableAWSServiceAccess</a>	Grants permission to enable integration of an AWS service (the service that is specified by ServicePrincipal) with AWS Organizations	Write		<a href="#">organizations:ServicePrincipal</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableAllFeatures</a>	Grants permission to start the process to enable all features in an organization, upgrading it from supporting only Consolidated Billing features	Write			
<a href="#">EnablePolicyType</a>	Grants permission to enable a policy type in a root	Write	<a href="#">root*</a>		
				<a href="#">organizations:PolicyType</a>	
<a href="#">InviteAccountToOrganization</a>	Grants permission to send an invitation to another AWS account, asking it to join your organization as a member account	Write	<a href="#">account</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">InviteOrganizationToTransferResponsibility</a>	Grants permission to send an invitation to another AWS account, asking it to transfer a particular responsibility to your organization	Write	<a href="#">account</a>		
				<a href="#">organizations:TransferType</a>	
				<a href="#">organizations:TransferDirection</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LeaveOrganization</a>	Grants permission to remove a member account from its parent organization	Write			
<a href="#">ListAWSServiceAccessForOrganization</a>	Grants permission to retrieve the list of the AWS services for which you enabled integration with your organization	List			
<a href="#">ListAccounts</a>	Grants permission to list all of the accounts in the organization	List			
<a href="#">ListAccountsForParent</a>	Grants permission to list the accounts in an organization that are contained by a root or organizational unit (OU)	List	<a href="#">organizationalunit</a> <a href="#">root</a>		
<a href="#">ListAccountsWithinInvalidEffectivePolicy</a>	Grants permission to list accounts that have invalid effective policies for a specified policy type	List		<a href="#">organizations:PolicyType</a>	
<a href="#">ListChildren</a>	Grants permission to list all of the OUs or accounts that are contained in a parent OU or root	List	<a href="#">organizationalunit</a> <a href="#">root</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCreateAccountStatus</a>	Grants permission to list the asynchronous account creation requests that are currently being tracked for the organization	List			
<a href="#">ListDelegatedAdministrators</a>	Grants permission to list the AWS accounts that are designated as delegated administrators in this organization	List		<a href="#">organizations:ServicePrincipal</a>	
<a href="#">ListDelegatedServicesForAccount</a>	Grants permission to list the AWS services for which the specified account is a delegated administrator in this organization	List	<a href="#">account*</a>		
<a href="#">ListEffectivePolicyValidationErrors</a>	Grants permission to list validation errors found in the effective policy for a specific account and policy type	List	<a href="#">account*</a>	<a href="#">organizations:PolicyType</a>	
<a href="#">ListHandshakesForAccount</a>	Grants permission to list all of the handshakes that are associated with an account	List			
<a href="#">ListHandshakesForOrganization</a>	Grants permission to list the handshakes that are associated with the organization	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInboundResponsibilityTransfers</a>	Grants permission to list all responsibilities of a particular type transferred to your organization	List		<a href="#">organizations:TransferType</a> <a href="#">organizations:TransferDirection</a>	
<a href="#">ListOrganizationalUnitsForParent</a>	Grants permission to list all of the organizational units (OUs) in a parent organizational unit or root	List	<a href="#">organizationalunit</a> <a href="#">root</a>		
<a href="#">ListOutboundResponsibilityTransfers</a>	Grants permission to list all responsibilities of a particular type transferred to another organization	List		<a href="#">organizations:TransferType</a> <a href="#">organizations:TransferDirection</a>	
<a href="#">ListParents</a>	Grants permission to list the root or organizational units (OUs) that serve as the immediate parent of a child OU or account	List	<a href="#">account</a> <a href="#">organizationalunit</a>		
<a href="#">ListPolicies</a>	Grants permission to list all of the policies in an organization	List		<a href="#">organizations:PolicyType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPoliciesForTarget</a>	Grants permission to list all of the policies that are directly attached to a root, organizational unit (OU), or account	List	<a href="#">account</a>		
			<a href="#">organizationalunit</a>		
			<a href="#">root</a>		
			<a href="#">organizations:PolicyType</a>		
<a href="#">ListRoots</a>	Grants permission to list all of the roots that are defined in the organization	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for the specified resource	List	<a href="#">account</a>		
			<a href="#">organizationalunit</a>		
			<a href="#">policy</a>		
			<a href="#">resourcepolicy</a>		
			<a href="#">responsibilitytransfer</a>	<a href="#">organizations:TransferType</a>	
	<a href="#">organizations:TransferDirection</a>				

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">root</a>		
				<a href="#">organizations:PolicyType</a>	
<a href="#">ListTargetsForPolicy</a>	Grants permission to list all the roots, OUs, and accounts to which a policy is attached	List	<a href="#">policy*</a>		
				<a href="#">organizations:PolicyType</a>	
<a href="#">MoveAccount</a>	Grants permission to move an account from its current root or OU to another parent root or OU	Write	<a href="#">account*</a>		
			<a href="#">organizationalunit*</a>		
			<a href="#">root*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to create or update a resource policy	Write	<a href="#">resourcepolicy*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterDelegatedAdministrator</a>	Grants permission to register the specified member account to administer the Organizations features of the AWS service that is specified by ServicePrincipal	Write	<a href="#">account*</a>		
				<a href="#">organizations:ServicePrincipal</a>	
<a href="#">RemoveAccountFromOrganization</a>	Grants permission to remove the specified account from the organization	Write	<a href="#">account*</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tags to the specified resource	Tagging	<a href="#">account</a>		
			<a href="#">organizationalunit</a>		
			<a href="#">policy</a>	<a href="#">organizations:PolicyType</a>	
			<a href="#">resourcepolicy</a>		
			<a href="#">responsibilitytransfer</a>	<a href="#">organizations:TransferType</a>	
				<a href="#">organizations:TransferDirection</a>	
		<a href="#">root</a>			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">organizations:PolicyType</a>	
<a href="#">TerminateResponsibilityTransfer</a>	Grants permission to end the transfer for a responsibility to or from your organization	Write	<a href="#">responsibilitytransfer*</a>	<a href="#">organizations:TransferType</a> <a href="#">organizations:TransferDirection</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from the specified resource	Tagging	<a href="#">account</a> <a href="#">organizationalunit</a> <a href="#">policy</a> <a href="#">resourcepolicy</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">responsibilitytransfer</a>	<a href="#">organizations:TransferType</a>  <a href="#">organizations:TransferDirection</a>	
			<a href="#">root</a>		
				<a href="#">aws:TagKeys</a>  <a href="#">organizations:PolicyType</a>	
<a href="#">UpdateOrganizationalUnit</a>	Grants permission to rename an organizational unit (OU)	Write	<a href="#">organizationalunit*</a>		
<a href="#">UpdatePolicy</a>	Grants permission to update an existing policy with a new name, description, or content	Write	<a href="#">policy*</a>		
				<a href="#">organizations:PolicyType</a>	
<a href="#">UpdateResponsibilityTransfer</a>	Grants permission to rename a responsibility transfer to or from your organization	Write	<a href="#">responsibilitytransfer*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">organizations:TransferType</a> <a href="#">organizations:TransferDirection</a>	

## Resource types defined by AWS Organizations

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">account</a>	arn:\${Partition}:organizations::\${Account}:account/o-\${OrganizationId}/\${AccountId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">handshake</a>	arn:\${Partition}:organizations::\${Account}:handshake/o-\${OrganizationId}/\${HandshakeType}/h-\${HandshakeId}	
<a href="#">organization</a>	arn:\${Partition}:organizations::\${Account}:organization/o-\${OrganizationId}	

Resource types	ARN	Condition keys
<a href="#">organizationalunit</a>	arn:\${Partition}:organizations::\${Account}:ou/o-\${OrganizationId}/ou-\${OrganizationalUnitId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">policy</a>	arn:\${Partition}:organizations::\${Account}:policy/o-\${OrganizationId}/\${PolicyType}/p-\${PolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resourcepolicy</a>	arn:\${Partition}:organizations::\${Account}:resourcepolicy/o-\${OrganizationId}/rp-\${ResourcePolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">awspolicy</a>	arn:\${Partition}:organizations::aws:policy/\${PolicyType}/p-\${PolicyId}	
<a href="#">root</a>	arn:\${Partition}:organizations::\${Account}:root/o-\${OrganizationId}/r-\${RootId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">responsibilitytransfer</a>	arn:\${Partition}:organizations::\${Account}:transfer/o-\${OrganizationId}/\${TransferType}/\${TransferDirection}/rt-\${ResponsibilityTransferId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Organizations

AWS Organizations defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">organizations:PolicyType</a>	Filters access by the specified policy type names	String
<a href="#">organizations:ServicePrincipal</a>	Filters access by the specified service principal names	String
<a href="#">organizations:TransferDirection</a>	Filters access by the specified responsibility transfer by the direction	String
<a href="#">organizations:TransferType</a>	Filters access by the specified responsibility transfer type names	String

## Actions, resources, and condition keys for AWS Outposts

AWS Outposts (service prefix: outposts) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Outposts](#)
- [Resource types defined by AWS Outposts](#)
- [Condition keys for AWS Outposts](#)

## Actions defined by AWS Outposts

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelCapacityTask</a>	Grants permission to cancel a capacity task	Write	<a href="#">outpost*</a>		
<a href="#">CancelOrder</a>	Grants permission to cancel an order	Write			
<a href="#">CreateOrder</a>	Grants permission to create an order	Write	<a href="#">outpost*</a>		
<a href="#">CreateOutpost</a>	Grants permission to create an Outpost	Write	<a href="#">site*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePrivateConnectivityConfig</a>	Grants permission to create a private connectivity configuration	Write	<a href="#">outpost*</a>		
<a href="#">CreateSite</a>	Grants permission to create a site	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteOutpost</a>	Grants permission to delete an Outpost	Write	<a href="#">outpost*</a>		
<a href="#">DeleteSite</a>	Grants permission to delete a site	Write	<a href="#">site*</a>		
<a href="#">GetCapacityTask</a>	Grants permission to get information about the specified capacity task	Read	<a href="#">outpost*</a>		
<a href="#">GetCatalogItem</a>	Grants permission to get a catalog item	Read			
<a href="#">GetConnection</a>	Grants permission to get information about the connection for your Outpost server	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOrder</a>	Grants permission to get information about an order	Read			
<a href="#">GetOutpost</a>	Grants permission to get information about the specified Outpost	Read	<a href="#">outpost*</a>		
<a href="#">GetOutpostBillingInformation</a>	Grants permission to get Outpost billing information for the specified Outpost	Read	<a href="#">outpost*</a>		
<a href="#">GetOutpostInstanceTypes</a>	Grants permission to get the instance types for the specified Outpost	Read	<a href="#">outpost*</a>		
<a href="#">GetOutpostSupportedInstanceTypes</a>	Grants permission to get the supported instance types for the specified Outpost	Read	<a href="#">outpost*</a>		
<a href="#">GetPrivateConnectivityConfig</a>	Grants permission to get a private connectivity configuration	Read	<a href="#">outpost*</a>		
<a href="#">GetSite</a>	Grants permission to get a site	Read	<a href="#">site*</a>		
<a href="#">GetSiteAddress</a>	Grants permission to get a site address	Read	<a href="#">site*</a>		
<a href="#">ListAssetInstances</a>	Grants permission to list all running instances for the specified Outpost	List	<a href="#">outpost*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssets</a>	Grants permission to list the assets for your Outpost	List	<a href="#">outpost*</a>		
<a href="#">ListBlockingInstancesForCapacityTask</a>	Grants permission to list all running instances that are blocking the capacity task from running for the specified Outpost	List	<a href="#">outpost*</a>		
<a href="#">ListCapacityTasks</a>	Grants permission to list the capacity tasks for your AWS account	List			
<a href="#">ListCatalogItems</a>	Grants permission to list all catalog items	List			
<a href="#">ListOrders</a>	Grants permission to list the orders for your AWS account	List			
<a href="#">ListOutposts</a>	Grants permission to list the Outposts for your AWS account	List			
<a href="#">ListSites</a>	Grants permission to list the sites for your AWS account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			
<a href="#">StartCapacityTask</a>	Grants permission to create a capacity task	Write	<a href="#">outpost*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartConnection</a>	Grants permission to start a connection for your Outpost server	Write			
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">outpost</a>		
			<a href="#">site</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">outpost</a>		
			<a href="#">site</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateOutpost</a>	Grants permission to update an Outpost	Write	<a href="#">outpost*</a>		
<a href="#">UpdateSite</a>	Grants permission to update a site	Write	<a href="#">site*</a>		
<a href="#">UpdateSiteAddress</a>	Grants permission to update the site address	Write	<a href="#">site*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSiteRackPhysicalProperties</a>	Grants permission to update the physical properties of a rack at a site	Write	<a href="#">site*</a>		

## Resource types defined by AWS Outposts

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">outpost</a>	arn:\${Partition}:outposts:\${Region}:\${Account}:outpost/\${OutpostId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">site</a>	arn:\${Partition}:outposts:\${Region}:\${Account}:site/\${SiteId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Outposts

AWS Outposts defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Panorama

AWS Panorama (service prefix: `panorama`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Panorama](#)
- [Resource types defined by AWS Panorama](#)
- [Condition keys for AWS Panorama](#)

## Actions defined by AWS Panorama

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplicationInstance</a>	Grants permission to create an AWS Panorama Application Instance	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateJobForDevices</a>	Grants permission to create a job for an AWS Panorama Appliance	Write			
<a href="#">CreateNodeFromTemplateJob</a>	Grants permission to create an AWS Panorama Node	Write			
<a href="#">CreatePackage</a>	Grants permission to create an AWS Panorama Package	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreatePackageImportJob</a>	Grants permission to create an AWS Panorama Package	Write			
<a href="#">DeleteDevice</a>	Grants permission to deregister an AWS Panorama Appliance	Write	<a href="#">device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePackage</a>	Grants permission to delete an AWS Panorama Package	Write	<a href="#">package*</a>		
<a href="#">DeregisterPackageVersion</a>	Grants permission to deregister an AWS Panorama package version	Write	<a href="#">package*</a>		
<a href="#">DescribeApplicationInstance</a>	Grants permission to view details about an AWS Panorama application instance	Read	<a href="#">applicationInstance*</a>		
<a href="#">DescribeApplicationInstanceDetails</a>	Grants permission to view details about an AWS Panorama application instance	Read	<a href="#">applicationInstance*</a>		
<a href="#">DescribeDevice</a>	Grants permission to view details about an AWS Panorama Appliance	Read	<a href="#">device*</a>		
<a href="#">DescribeDeviceJob</a>	Grants permission to view job details for an AWS Panorama Appliance	Read			
<a href="#">DescribeNode</a>	Grants permission to view details about an AWS Panorama application node	Read			
<a href="#">DescribeNodeFromTemplateJob</a>	Grants permission to view details about AWS Panorama application node	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePackage</a>	Grants permission to view details about an AWS Panorama package	Read	<a href="#">package*</a>		
<a href="#">DescribePackageImportJob</a>	Grants permission to view details about an AWS Panorama package	Read			
<a href="#">DescribePackageVersion</a>	Grants permission to view details about an AWS Panorama package version	Read	<a href="#">package*</a>		
<a href="#">DescribeSoftware</a> [permission only]	Grants permission to view details about a software version for the AWS Panorama Appliance	Read			
<a href="#">GetWebSocketURL</a> [permission only]	Grants permission to generate a WebSocket endpoint for communication with AWS Panorama	Read			
<a href="#">ListApplicationInstanceDependencies</a>	Grants permission to retrieve a list of application instance dependencies in AWS Panorama	List	<a href="#">applicationInstance*</a>		
<a href="#">ListApplicationInstanceNodeInstances</a>	Grants permission to retrieve a list of node instances of application instances in AWS Panorama	List	<a href="#">applicationInstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplicationInstances</a>	Grants permission to retrieve a list of application instances in AWS Panorama	List	<a href="#">device</a>		
<a href="#">ListDevices</a>	Grants permission to retrieve a list of appliances in AWS Panorama	List			
<a href="#">ListDevicesJobs</a>	Grants permission to retrieve a list of jobs for an AWS Panorama Appliance	List	<a href="#">device</a>		
<a href="#">ListNodeFromTemplateJobs</a>	Grants permission to retrieve a list of Nodes for an AWS Panorama Appliance	List			
<a href="#">ListNodes</a>	Grants permission to retrieve a list of nodes in AWS Panorama	List			
<a href="#">ListPackageImportsJobs</a>	Grants permission to retrieve a list of packages in AWS Panorama	List			
<a href="#">ListPackages</a>	Grants permission to retrieve a list of packages in AWS Panorama	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of tags for a resource in AWS Panorama	Read	<a href="#">applicationInstance</a> <a href="#">device</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">package</a>		
<a href="#">Provision Device</a>	Grants permission to register an AWS Panorama Appliance	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">RegisterPackageVersion</a>	Grants permission to register an AWS Panorama package version	Write	<a href="#">package*</a>		
<a href="#">RemoveApplicationInstance</a>	Grants permission to remove an AWS Panorama application instance	Write	<a href="#">applicationInstance*</a>		
<a href="#">SignalApplicationInstanceNodes</a>	Grants permission to signal camera nodes in an application instance to pause or resume	Write	<a href="#">applicationInstance*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource in AWS Panorama	Tagging	<a href="#">applicationInstance</a>		
			<a href="#">device</a>		
			<a href="#">package</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource in AWS Panorama	Tagging	<a href="#">applicationInstance</a> <a href="#">device</a> <a href="#">package</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDeviceMetadata</a>	Grants permission to modify basic settings for an AWS Panorama Appliance	Write	<a href="#">device*</a>		

## Resource types defined by AWS Panorama

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">device</a>	arn:\${Partition}:panorama:\${Region}:\${Account}:device/\${DeviceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">package</a>	arn:\${Partition}:panorama:\${Region}:\${Account}:package/\${PackageId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">applicationInstance</a>	arn:\${Partition}:panorama:\${Region}:\${Account}:applicationInstance/\${ApplicationInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Panorama

AWS Panorama defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

# Actions, resources, and condition keys for AWS Parallel Computing Service

AWS Parallel Computing Service (service prefix: pcs) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Parallel Computing Service](#)
- [Resource types defined by AWS Parallel Computing Service](#)
- [Condition keys for AWS Parallel Computing Service](#)

## Actions defined by AWS Parallel Computing Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for AWS PCS cluster logs	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create clusters	Write		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:DescribeNetworkInterfaces ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs ec2:GetSecurityGroupsForVpc iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:CreateSecret  secretsmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateComputeNodeGroup</a>	Grants permission to create compute node groups	Write	<a href="#">cluster*</a>		ec2:CreateFleet ec2:CreateLaunchTemplate ec2:CreateLaunchTemplateVersion ec2:CreateTags ec2:DescribeImages ec2:DescribeInstanceStatus ec2:DescribeInstanceTypes ec2:DescribeInstances ec2:DescribeLaunchTemplateVersions



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeLaunchTemplates
					ec2:DescribeSecurityGroups
					ec2:DescribeSubnets
					ec2:DescribeVpcs
					ec2:RunInstances
					iam:GetInstanceProfile
					iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateQueue</a>	Grants permission to create queues	Write	<a href="#">cluster*</a>		
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCluster</a>	Grants permission to delete clusters	Write	<a href="#">cluster*</a>		ec2:DeleteNetworkInterface  secretsmanager:DeleteSecret
<a href="#">DeleteComputeNodeGroup</a>	Grants permission to delete compute node groups	Write	<a href="#">cluster*</a>		ec2:DeleteLaunchTemplate  ec2:TerminateInstances
			<a href="#">computenodegroup*</a>		
<a href="#">DeleteQueue</a>	Grants permission to delete queues	Write	<a href="#">cluster*</a>		
			<a href="#">queue*</a>		
<a href="#">GetCluster</a>	Grants permission to get cluster properties	Read	<a href="#">cluster*</a>		
<a href="#">GetComputeNodeGroup</a>	Grants permission to get compute node group properties	Read	<a href="#">cluster*</a>		
			<a href="#">computenodegroup*</a>		
<a href="#">GetQueue</a>	Grants permission to get queue properties	Read	<a href="#">cluster*</a>		
			<a href="#">queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListClusters</a>	Grants permission to list clusters	List			
<a href="#">ListComputeNodeGroups</a>	Grants permission to list compute node groups	List	<a href="#">cluster*</a>		
<a href="#">ListQueues</a>	Grants permission to list queues	List	<a href="#">cluster*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read			
<a href="#">RegisterComputeNodeGroupInstance</a>	Grants permission to register a compute instance in a compute node group	Write	<a href="#">cluster*</a>		secretsmanager:GetSecretValue
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">cluster</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">computenodegroup</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
			<a href="#">queue</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">cluster</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>	
			<a href="#">computecoregroup</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>	
			<a href="#">queue</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCluster</a>	Grants permission to update cluster properties	Write	<a href="#">cluster*</a>		ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:DescribeNetworkInterfaces ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs ec2:GetSecurityGroupsForVpc iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:CreateSecret  secretsmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateComputeNodeGroup</a>	Grants permission to update compute node group properties	Write	<a href="#">cluster*</a>		ec2:CreateFleet ec2:CreateLaunchTemplate ec2:CreateLaunchTemplateVersion ec2:CreateTags ec2:DescribeImages ec2:DescribeInstanceStatus ec2:DescribeInstanceTypes ec2:DescribeInstances ec2:DescribeLaunchTemplateVersions



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ec2:DescribeLaunchTemplates ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs ec2:RunInstances iam:GetInstanceProfile iam:PassRole
<a href="#">UpdateQueue</a>	Grants permission to update queue properties	Write	<a href="#">cluster*</a> <a href="#">queue*</a>		

## Resource types defined by AWS Parallel Computing Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:pcs:\${Region}:\${Account}:cluster/\${ClusterIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">computenodegroup</a>	arn:\${Partition}:pcs:\${Region}:\${Account}:cluster/\${ClusterIdentifier}/computenodegroup/\${ComputeNodeGroupIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">queue</a>	arn:\${Partition}:pcs:\${Region}:\${Account}:cluster/\${ClusterIdentifier}/queue/\${QueueIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Parallel Computing Service

AWS Parallel Computing Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Partner Central

AWS Partner Central (service prefix: `partnercentral`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Partner Central](#)
- [Resource types defined by AWS Partner Central](#)
- [Condition keys for AWS Partner Central](#)

## Actions defined by AWS Partner Central

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptChannelHandshake</a>	Grants permission to accept channel handshakes in AWS Partner Central	Write	<a href="#">ChannelHandshake*</a>	<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:ChannelHandshakeType</a>	
<a href="#">AcceptConnectionInvitation</a>	Grants permission to accept connection invitations in AWS Partner Central	Write	<a href="#">ConnectionInvitation*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">AcceptEngagementInvitation</a>	Grants permission to accept Engagement Invitations on AWS Partner Central	Write	<a href="#">engagement-invitation*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">AmendBenefitApplication</a>	Grants permission to amend benefit applications in AWS Partner Central	Write	<a href="#">BenefitApplication*</a>	<a href="#">aws:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">AssignOpportunity</a>	Grants permission to assign Opportunities on AWS Partner Central	Write	<a href="#">Opportunity*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">AssociateAwsTrainingCertificationEmailDomain</a>	Grants permission to associate AWS Training and Certification email domains in AWS Partner Central	Write	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate BenefitApplication Resource</a>	Grants permission to associate benefit application resources in AWS Partner Central	Write	<a href="#">BenefitApplication*</a>  <a href="#">BenefitApplication*</a>  <a href="#">Opportunity*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral: FulfillmentTypes</a>  <a href="#">partnercentral: Programs</a>	
<a href="#">Associate Opportunity</a>	Grants permission to associate Opportunities on AWS Partner Central with other entities	Write	<a href="#">Opportunity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:RelatedEntityType</a>	
<a href="#">CancelBenefitApplication</a>	Grants permission to cancel benefit applications in AWS Partner Central	Write	<a href="#">BenefitApplication*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullfillmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">CancelChannelHandshake</a>	Grants permission to cancel channel handshakes in AWS Partner Central	Write	<a href="#">ChannelHandshake*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:ChannelHandshakeType</a>	
<a href="#">CancelConnection</a>	Grants permission to cancel connections in AWS Partner Central	Write	<a href="#">Connection*</a>		
<a href="#">CancelConnectionInvitation</a>	Grants permission to cancel connection invitations in AWS Partner Central	Write	<a href="#">ConnectionInvitation*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">CancelProfileUpdateTask</a>	Grants permission to cancel profile update tasks in AWS Partner Central	Write	<a href="#">Partner*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBenefitApplication</a>	Grants permission to create benefit applications in AWS Partner Central	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:FullfillmentTypes</a>  <a href="#">partnercentral:Programs</a>	
<a href="#">CreateBusinessPlan</a> [permission only]	Grants permission to create business plans in AWS Partner Central	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateChannelHandshake</a>	Grants permission to create channel handshakes in AWS Partner Central	Write	<a href="#">ProgramManagementAccount</a>  <a href="#">Relationship</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:ChannelHandshakeType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCollaborationChannelMembers</a> [permission only]	Grants permission to create collaboration channel members in AWS Partner Central	Write			
<a href="#">CreateCollaborationChannelRequest</a> [permission only]	Grants permission to create collaboration channel requests in AWS Partner Central	Write			
<a href="#">CreateConnectionInvitation</a>	Grants permission to create connection invitations in AWS Partner Central	Write		<a href="#">partnercentral:Catalog</a>	
<a href="#">CreateEngagement</a>	Grants permission to creating engagements in AWS Partner Central	Write	<a href="#">Engagement*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">CreateEngagementContext</a>	Grants permission to create engagement contexts in AWS Partner Central	Write	<a href="#">Engagement*</a>	<a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEngagementInvitation</a>	Grants permission to creating engagement invitations in AWS Partner Central	Write	<a href="#">engagement-invitation*</a>		
<a href="#">CreateOpportunity</a>	Grants permission to create new Opportunities on AWS Partner Central	Write	<a href="#">Opportunity*</a>	<a href="#">partnercentral:Catalog</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePartner</a>	Grants permission to create partners in AWS Partner Central	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">CreateProgramManagementAccount</a>	Grants permission to create program management accounts in AWS Partner Central	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRelationship</a>	Grants permission to create relationships in AWS Partner Central	Write	<a href="#">ProgramManagementAccount*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">CreateResourceSnapshot</a>	Grants permission to creating resource snapshots in AWS Partner Central	Write	<a href="#">ResourceSnapshot*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">CreateResourceSnapshotJob</a>	Grants permission to creating resource snapshot jobs in AWS Partner Central	Write	<a href="#">resource-snapshot-job*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">DeleteProgramManagementAccount</a>	Grants permission to delete program management accounts in AWS Partner Central	Write	<a href="#">ProgramManagementAccount*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">DeleteRelationship</a>	Grants permission to delete relationships in AWS Partner Central	Write	<a href="#">Relationship*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">DeleteResourceSnapshotJob</a>	Grants permission to deleting resource snapshot jobs on AWS Partner Central	Write	<a href="#">resource-snapshot-job*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">DisassociateAwsTrainingCertificationEmailDomain</a>	Grants permission to disassociate AWS Training and Certification email domains in AWS Partner Central	Write	<a href="#">Partner*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">DisassociateBenefitApplicationResource</a>	Grants permission to disassociate benefit application resources in AWS Partner Central	Write	<a href="#">BenefitAllocation*</a> <a href="#">BenefitApplication*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Opportunity*</a>		
<a href="#">DisassociateOpportunity</a>	Grants permission to disassociate Opportunities on AWS Partner Central from other entities	Write	<a href="#">Opportunity*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FillmentTypes</a> <a href="#">partnercentral:Programs</a>	
				<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:RelatedEntityType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnrollInPartnerPath</a> [permission only]	Grants permission to enroll in partner paths in AWS Partner Central	Write			
<a href="#">GetAllianceLeadContact</a>	Grants permission to retrieve alliance lead contact information in AWS Partner Central	Read	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">GetAwsOpportunitySummary</a>	Grants permission to retrieve AWS Opportunity Summaries for Opportunities on AWS Partner Central	Read	<a href="#">Opportunity*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">GetBenefit</a>	Grants permission to retrieve benefit details in AWS Partner Central	Read	<a href="#">Benefit*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">GetBenefitAllocation</a>	Grants permission to retrieve benefit allocation details in AWS Partner Central	Read	<a href="#">BenefitAllocation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:FullfillmentTypes</a>	
<a href="#">GetBenefitApplication</a>	Grants permission to retrieve benefit application details in AWS Partner Central	Read	<a href="#">BenefitApplication*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullfillmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">GetBusinessPlan</a> [permission only]	Grants permission to retrieve business plan details in AWS Partner Central	Read			
<a href="#">GetCollaborationChannel</a> [permission only]	Grants permission to retrieve collaboration channel details in AWS Partner Central	Read			
<a href="#">GetConnection</a>	Grants permission to retrieve connection details in AWS Partner Central	Read	<a href="#">Connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetConnectionInvitation</a>	Grants permission to retrieve connection invitation details in AWS Partner Central	Read	<a href="#">ConnectionInvitation*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetConnectionPreferences</a>	Grants permission to retrieve connection preferences in AWS Partner Central	Read		<a href="#">partnercentral:Catalog</a>	
<a href="#">GetEngagement</a>	Grants permission to retrieval of engagement details in AWS Partner Central	Read	<a href="#">Engagement*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetEngagementInvitation</a>	Grants permission to retrieve details of Engagement Invitations on AWS Partner Central	Read	<a href="#">engagementinvitation*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetOpportunity</a>	Grants permission to retrieve details of Opportunities on AWS Partner Central	Read	<a href="#">Opportunity*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetPartner</a>	Grants permission to retrieve partner details in AWS Partner Central	Read	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">GetPartnerDashboard</a>	Grants permission to retrieve partner dashboard information in AWS Partner Central	Read	<a href="#">Dashboard*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">GetPartnerProfile</a> [permission only]	Grants permission to retrieve public partner profile details in AWS Partner Central	Read			
<a href="#">GetProfileUpdateTask</a>	Grants permission to retrieve profile update task details in AWS Partner Central	Read	<a href="#">Partner*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">GetProfileVisibility</a>	Grants permission to retrieve profile visibility settings in AWS Partner Central	Read	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">GetProgramManagementAccount</a> [permission only]	Grants permission to retrieve program management account details in AWS Partner Central	Read		<a href="#">partnercentral:Catalog</a>	
<a href="#">GetRelationship</a>	Grants permission to retrieve relationship details in AWS Partner Central	Read	<a href="#">Relationship*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">GetResourceSnapshot</a>	Grants permission to retrieving resource snapshot details in AWS Partner Central	Read	<a href="#">ResourceSnapshot*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetResourceSnapshotJob</a>	Grants permission to retrieving resource snapshot job details in AWS Partner Central	Read	<a href="#">resource-snapshot-job*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">GetSellingSystemSettings</a>	Grants permission to retrieving selling system settings in AWS Partner Central	Read		<a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVerification</a>	Grants permission to retrieve verification details in AWS Partner Central	Read		<a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:VerificationType</a>	
<a href="#">ListBenefitAllocations</a>	Grants permission to list benefit allocations in AWS Partner Central	List	<a href="#">BenefitAllocation*</a>	<a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:FulfillmentTypes</a>	
<a href="#">ListBenefitApplications</a>	Grants permission to list benefit applications in AWS Partner Central	List	<a href="#">BenefitApplication*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">ListBenefits</a>	Grants permission to list benefits in AWS Partner Central	List	<a href="#">Benefit*</a>	<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">ListBusinessPlans</a> [permission only]	Grants permission to list business plans in AWS Partner Central	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListChannelHandshakes</a>	Grants permission to list channel handshakes in AWS Partner Central	List	<a href="#">ChannelHandshake*</a>	<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:ChannelHandshakeType</a>	
<a href="#">ListCollaborationChannels</a> [permission only]	Grants permission to list collaboration channels in AWS Partner Central	List			
<a href="#">ListConnectionInvitations</a>	Grants permission to list connection invitations in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListConnections</a>	Grants permission to list connections in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListEngagementByAcceptingInvitationTasks</a>	Grants permission to listing engagements by accepting invitation tasks in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEngagementFromOpportunityTasks</a>	Grants permission to listing engagements from opportunity tasks in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListEngagementInvitations</a>	Grants permission to list Engagement Invitations on AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListEngagementMembers</a>	Grants permission to listing engagement members in AWS Partner Central	Read	<a href="#">Engagement*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">ListEngagementResourceAssociations</a>	Grants permission to listing engagement resource associations in AWS Partner Central	Read	<a href="#">ResourceSnapshot*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">ListEngagements</a>	Grants permission to listing engagements in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListOpportunities</a>	Grants permission to list Opportunities on AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOpportunityFromEngagementTasks</a>	Grants permission to list opportunity from engagement tasks in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListPartnerPaths</a> [permission only]	Grants permission to list partner paths in AWS Partner Central	List			
<a href="#">ListPartners</a>	Grants permission to list partners in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListProgramManagementAccounts</a>	Grants permission to list program management accounts in AWS Partner Central	List	<a href="#">ProgramManagementAccount*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">ListRelationships</a>	Grants permission to list relationships in AWS Partner Central	List	<a href="#">Relationship*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">ListResourceSnapshotJobs</a>	Grants permission to listing resource snapshot jobs in AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceSnapshots</a>	Grants permission to listing resource snapshots in AWS Partner Central	List	<a href="#">ResourceSnapshot*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">ListSolutions</a>	Grants permission to list Solutions on AWS Partner Central	List		<a href="#">partnercentral:Catalog</a>	
<a href="#">ListTagsForResource</a>	Grants permission to add lists tags to a resource. Supported resource: ResourceSnapshotJob	Read		<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullfillmentTypes</a> <a href="#">partnercentral:Programs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAllianceLeadContact</a>	Grants permission to set alliance lead contact information in AWS Partner Central	Write	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">PutBusinessPlan</a> [permission only]	Grants permission to update business plans in AWS Partner Central	Write			
<a href="#">PutProfileVisibility</a>	Grants permission to set profile visibility in AWS Partner Central	Write	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">PutSellingSystemSettings</a>	Grants permission to put selling system settings in AWS Partner Central	Write			
<a href="#">RecallBenefitApplication</a>	Grants permission to recall benefit applications in AWS Partner Central	Write	<a href="#">BenefitApplication*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:FullmentTypes</a>  <a href="#">partnercentral:Programs</a>	
<a href="#">RejectChannelHandshake</a>	Grants permission to reject channel handshakes in AWS Partner Central	Write	<a href="#">ChannelHandshake*</a>	<a href="#">partnercentral:Catalog</a>  <a href="#">partnercentral:ChannelHandshakeType</a>	
<a href="#">RejectConnectionInvitation</a>	Grants permission to reject connection invitations in AWS Partner Central	Write	<a href="#">ConnectionInvitation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">partnercentral:Catalog</a>	
<a href="#">RejectEngagementInvitation</a>	Grants permission to reject Engagement Invitations on AWS Partner Central	Write	<a href="#">engagement-invitation*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">SearchPartnerProfiles</a> [permission only]	Grants permission to search public partner profiles in AWS Partner Central	List			
<a href="#">SendEmailVerificationCode</a>	Grants permission to send email verification codes in AWS Partner Central	Write		<a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartEngagementByAcceptingInvitationTask</a>	Grants permission to initiate tasks that start Engagements on AWS Partner Central by accepting an Engagement Invitation	Write	<a href="#">engagement-by-accepting-invitation-task*</a>		partnercentral:AcceptEngagementInvitation  partnercentral>CreateOpportunity  partnercentral>CreateResourceSnapshotJob  partnercentral:GetEngagementInvitation  partnercentral:StartResourceSnapshotJob  partnercentral:SubmitOpportunity

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartEngagementFromOpportunityTask</a>	Grants permission to initiate tasks that start Engagements from Opportunities on AWS Partner Central	Write	<a href="#">engagement-from-opportunity-task*</a>		partnercentral:CreateEngagement partnercentral:CreateEngagementInvitation partnercentral:CreateResourceSnapshotJob partnercentral:GetOpportunity partnercentral:StartResourceSnapshotJob partnercentral:SubmitOpportunity

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartOpportunityFromEngagementTask</a>	Grants permission to initiate tasks that start Opportunities from Engagements on AWS Partner Central	Write	<a href="#">OpportunityFromEngagementTask*</a>		partnercentral:CreateEngagementContext partnercentral:CreateOpportunity partnercentral:CreateResourceSnapshot partnercentral:CreateResourceSnapshotJob partnercentral:GetEngagement partnercentral:StartResourceSnapshotJob

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">StartProfileUpdateTask</a>	Grants permission to start profile update tasks in AWS Partner Central	Write	<a href="#">Partner*</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>  <a href="#">partnercentral:Catalog</a>	
<a href="#">StartResourceSnapshotJob</a>	Grants permission to starting resource snapshot jobs in AWS Partner Central	Write	<a href="#">resource-snapshot-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">partnercentral:Catalog</a>	
<a href="#">StartVerification</a>	Grants permission to start verification processes in AWS Partner Central	Write		<a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:VerificationType</a>	
<a href="#">StopResourceSnapshotJob</a>	Grants permission to stopping resource snapshot jobs in AWS Partner Central	Write	<a href="#">resource-snapshot-job*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">SubmitBenefitApplication</a>	Grants permission to submit benefit applications in AWS Partner Central	Write	<a href="#">BenefitApplication*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullfillmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">SubmitOpportunity</a>	Grants permission to submit Opportunities on AWS Partner Central	Write	<a href="#">Opportunity*</a>		
				<a href="#">partnercentral:Catalog</a>	
<a href="#">TagResource</a>	Grants permission to add new tags to a resource. Supported resource: ResourceSnapshotJob	Tagging	<a href="#">BenefitApplication</a> <a href="#">ChannelHandshake</a> <a href="#">Opportunity</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Partner</a>		
			<a href="#">ProgramManagementAccount</a>		
			<a href="#">Relationship</a>		
			<a href="#">resource-snapshot-job</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FillmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource. Supported resource: ResourceSnapshotJob	Tagging	<a href="#">BenefitApplication</a> <a href="#">ChannelHandshake</a> <a href="#">Opportunity</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Partner</a>		
			<a href="#">ProgramManagementAccount</a>		
			<a href="#">Relationship</a>		
			<a href="#">resource-snapshot-job</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FillmentTypes</a> <a href="#">partnercentral:Programs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBenefitApplication</a>	Grants permission to update benefit applications in AWS Partner Central	Write	<a href="#">BenefitApplication*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a> <a href="#">partnercentral:FullfillmentTypes</a> <a href="#">partnercentral:Programs</a>	
<a href="#">UpdateConnectionPreferences</a>	Grants permission to update connection preferences in AWS Partner Central	Write		<a href="#">partnercentral:Catalog</a>	
<a href="#">UpdateEngagementContext</a>	Grants permission to update engagement contexts in AWS Partner Central	Write	<a href="#">Engagement*</a>	<a href="#">partnercentral:Catalog</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOpportunity</a>	Grants permission to update Opportunities on AWS Partner Central	Write	<a href="#">Opportunity*</a>	<a href="#">partnercentral:Catalog</a>	
<a href="#">UpdateProgramManagementAccount</a>	Grants permission to update program management accounts in AWS Partner Central	Write	<a href="#">ProgramManagementAccount*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	
<a href="#">UpdateRelationship</a>	Grants permission to update relationships in AWS Partner Central	Write	<a href="#">Relationship*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">partnercentral:Catalog</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UseSession</a> [permission only]	Grants permission to use Partner Central Agents sessions in AWS Partner Central	Write		<a href="#">partnercentral:Catalog</a>	

## Resource types defined by AWS Partner Central

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Engagement</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/engagement/\${Identifier}	
<a href="#">engagement-by-accepting-invitation-task</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/engagement-by-accepting-invitation-task/\${TaskId}	
<a href="#">engagement-from-opportunity-task</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/engagement-from-opportunity-task/\${TaskId}	

Resource types	ARN	Condition keys
<a href="#">engagement-invitation</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/engagement-invitation/\${Identifier}	
<a href="#">Opportunity</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/opportunity/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resource-snapshot-job</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/resource-snapshot-job/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ResourceSnapshot</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/engagement/\${EngagementIdentifier}/resource/\${ResourceType}/\${ResourceIdentifier}/template/\${TemplateIdentifier}/resource-snapshot/\${SnapshotRevision}	
<a href="#">Solution</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/solution/\${Identifier}	
<a href="#">Partner</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/partner/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Connection</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/connection/\${Identifier}	
<a href="#">ConnectionInvitation</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/connection-invitation/\${Identifier}	

Resource types	ARN	Condition keys
<a href="#">ConnectionPreferences</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/connection-preferences	
<a href="#">OpportunityFromEngagementTask</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/opportunity-from-engagement-task/\${TaskId}	
<a href="#">Benefit</a>	arn:\${Partition}:partnercentral:\${Region}::catalog/\${Catalog}/benefit/\${Identifier}	
<a href="#">BenefitAllocation</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/benefit-allocation/\${Identifier}	
<a href="#">BenefitApplication</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/benefit-application/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ProgramManagementAccount</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/program-management-account/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Relationship</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/program-management-account/\${ProgramManagementAccountId}/relationship/\${RelationshipId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ChannelHandshake</a>	arn:\${Partition}:partnercentral:\${Region}:\${Account}:catalog/\${Catalog}/channel-handshake/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Dashboard</a>	arn:\${Partition}:partnercentral::\${Account}:catalog/\${Catalog}/ReportingData/\${TableId}/Dashboard/\${DashboardId}	

## Condition keys for AWS Partner Central

AWS Partner Central defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">partnercentral:Catalog</a>	Filters access by a specific Catalog	String
<a href="#">partnercentral:ChannelHandshakeType</a>	Filters access by channel handshake types	String

Condition keys	Description	Type
<a href="#">partnercentral:FulfillmentTypes</a>	Filters access by benefit fulfillment types	ArrayOfString
<a href="#">partnercentral:Programs</a>	Filters access by program	ArrayOfString
<a href="#">partnercentral:RelatedEntityType</a>	Filters access by entity types for Opportunity association	String
<a href="#">partnercentral:VerificationType</a>	Filters access by the type of verification being performed	String

## Actions, resources, and condition keys for AWS Partner central account management

AWS Partner central account management (service prefix: `partnercentral-account-management`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Partner central account management](#)
- [Resource types defined by AWS Partner central account management](#)
- [Condition keys for AWS Partner central account management](#)

## Actions defined by AWS Partner central account management

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AccessLegacyPartnerCentral</a> [permission only]	Grants permission to Single Sign-On from AWS Partner Central into Legacy Partner Central	Write		<a href="#">partnercentral-account-management:LegacyPartnerCentralRole</a>	
<a href="#">AccessMarketingCentral</a> [permission only]	Grants permission to Single Sign-On from AWS Partner Central into Marketing Central	Write		<a href="#">partnercentral-account-management:MarketingCentralRole</a>	
<a href="#">AccessProServeTools</a> [permission only]	Grants permission to Single Sign-On from AWS Partner Central into ProServe Tools	Write		<a href="#">partnercentral-account-management:ProServeRole</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate PartnerAccount</a> [permission only]	Grants permission to associate Partner account to AWS account	Write			
<a href="#">Associate PartnerUser</a>	Grants permission to associate Partner user to IAM role	Write			
<a href="#">DisassociatePartnerUser</a>	Grants permission to disassociate Partner user to IAM role	Write			

## Resource types defined by AWS Partner central account management

AWS Partner central account management does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Partner central account management, specify "Resource": "\*" in your policy.

## Condition keys for AWS Partner central account management

AWS Partner central account management defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">partnercentral-account-management:LegacyPartnerCentralRole</a>	Filters access by the Legacy Partner Central role	ArrayOfString
<a href="#">partnercentral-account-management:MarketingCentralRole</a>	Filters access by Marketing Central role	ArrayOfString
<a href="#">partnercentral-account-management:ProServeRole</a>	Filters access by ProServe Tools role	ArrayOfString

## Actions, resources, and condition keys for AWS Payment Cryptography

AWS Payment Cryptography (service prefix: `payment-cryptography`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Payment Cryptography](#)
- [Resource types defined by AWS Payment Cryptography](#)
- [Condition keys for AWS Payment Cryptography](#)

## Actions defined by AWS Payment Cryptography

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddKeyReplicationRegions</a>	Grants permission to add replication regions to an existing AWS Payment Cryptography key	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">CreateAlias</a>	Grants permission to create a user-friendly name for a Key	Write	<a href="#">alias*</a> <a href="#">key*</a>		
<a href="#">CreateKey</a>	Grants permission to create a unique customer managed key in the caller's AWS account and region	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">payment-cryptography:KeyClasses</a>	payment-cryptography:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">payment-cryptography:KeyUsage</a> <a href="#">payment-cryptography:KeyAlgorithm</a>	
<a href="#">DecryptData</a>	Grants permission to decrypt ciphertext data to plaintext using symmetric, asymmetric or DUKPT data encryption key	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">DeleteAlias</a>	Grants permission to delete the specified alias	Write	<a href="#">alias*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteKey</a>	Grants permission to schedule the deletion of a Key	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">DisableDefaultKeyReplicationRegions</a>	Grants permission to disable default key replication regions for account-level replication	Write			
<a href="#">EnableDefaultKeyReplicationRegions</a>	Grants permission to enable default key replication regions for account-level replication	Write			
<a href="#">EncryptData</a>	Grants permission to encrypt plaintext data to ciphertext using symmetric, asymmetric or DUKPT data encryption key	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">ExportKey</a>	Grants permission to export a key from the service	Write	<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">payment-cryptography:RequestAlias</a>  <a href="#">payment-cryptography:CertificateAuthorityPublicKeyIdentifier</a>  <a href="#">payment-cryptography:WrappingKeyIdentifier</a>	
<a href="#">GenerateAS2805KekValidation</a>	Grants permission to generate a KekValidationRequest or a KekValidationResponse for node-to-node initialization between payment processing nodes using Australian Standard 2805 (AS2805)	Write	<a href="#">alias*</a>  <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateCardValidationData</a>	Grants permission to generate card-related data using algorithms such as Card Verification Values (CVV/CVV2), Dynamic Card Verification Values (dCVV/dCVV2) or Card Security Codes (CSC) that check the validity of a magnetic stripe card	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">GenerateMac</a>	Grants permission to generate a MAC (Message Authentication Code) cryptogram	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">GenerateMacEmvPinChange</a>	Grants permission to generate a MAC (Message Authentication Code) cryptogram	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GeneratePinData</a>	Grants permission to generate pin-related data such as PIN, PIN Verification Value (PVV), PIN Block and PIN Offset during new card issuance or card re-issuance	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">GetAlias</a>	Grants permission to return the keyArn associated with an aliasName	Read	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	<a href="#">aws:TagKeys</a>
<a href="#">GetCertificateSigningRequest</a>	Grants permission to return the Certificate Signing Request for a public key from a key of class PUBLIC_KEY	Read	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDefaultKeyReplications</a>	Grants permission to retrieve the default key replication regions configured at the account level	Read			
<a href="#">GetKey</a>	Grants permission to return the detailed information about the specified key	Read	<a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">GetParametersForExport</a>	Grants permission to get the export token and the signing key certificate to initiate a TR-34 key export	Read			
<a href="#">GetParametersForImport</a>	Grants permission to get the import token and the wrapping key certificate to initiate a TR-34 key import	Read			
<a href="#">GetPublicKeyCertificate</a>	Grants permission to return the public key from a key of class PUBLIC_KEY	Read	<a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportKey</a>	Grants permission to imports keys and public key certificates	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">payment-cryptography:ImportKeyMaterial</a> <a href="#">payment-cryptography:CertificateAuthorityPublicKeyIdentifier</a> <a href="#">payment-cryptography:WrappingKeyIdentifier</a>	payment-cryptography:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAliases</a>	Grants permission to return a list of aliases created for all keys in the caller's AWS account and Region	List			
<a href="#">ListKeys</a>	Grants permission to return a list of keys created in the caller's AWS account and Region	List			
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags created in the caller's AWS account and Region	Read	<a href="#">key</a>		
<a href="#">ReEncryptData</a>	Grants permission to re-encrypt ciphertext using DUKPT, Symmetric and Asymmetric Data Encryption Keys	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">RemoveKeyReplicationRegions</a>	Grants permission to remove replication regions from an existing AWS Payment Cryptography key	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreKey</a>	Grants permission to cancel a scheduled key deletion if at any point during the waiting period a Key needs to be revived	Write	<a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">StartKeyUsage</a>	Grants permission to enable a disabled Key	Write	<a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">StopKeyUsage</a>	Grants permission to disable an enabled Key	Write	<a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">TagResource</a>	Grants permission to add or overwrites one or more tags for the specified resource	Tagging	<a href="#">key*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TranslateKeyMaterial</a>	Grants permission to translate wrapping key type for a wrapped key	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">TranslatePinData</a>	Grants permission to translate encrypted PIN block from and to ISO 9564 formats 0,1,3,4	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tag or tags from the specified resource	Tagging	<a href="#">key*</a>		<a href="#">aws:TagKeys</a>
<a href="#">UpdateAlias</a>	Grants permission to change the key to which an alias is assigned, or unassign it from its current key	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">VerifyAuthRequestCryptogram</a>	Grants permission to verify Authorization Request Cryptogram (ARQC) for a EMV chip payment card authorization	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">VerifyCardValidationData</a>	Grants permission to verify card-related validation data using algorithms such as Card Verification Values (CVV/CVV2), Dynamic Card Verification Values (dCVV/dCVV2) and Card Security Codes (CSC)	Write	<a href="#">alias*</a> <a href="#">key*</a>	<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">VerifyMac</a>	Grants permission to verify MAC (Message Authentication Code) of input data against a provided MAC	Write	<a href="#">alias*</a> <a href="#">key*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">payment-cryptography:RequestAlias</a>	
<a href="#">VerifyPinData</a>	Grants permission to verify pin-related data such as PIN and PIN Offset using algorithms including VISA PVV and IBM3624	Write	<a href="#">alias*</a>		
			<a href="#">key*</a>		
				<a href="#">payment-cryptography:RequestAlias</a>	

## Resource types defined by AWS Payment Cryptography

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">key</a>	arn:\${Partition}:payment-cryptography:\${Region}:\${Account}:key/\${KeyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">payment-cryptography:ResourceAliases</a>



Resource types	ARN	Condition keys
<a href="#">alias</a>	arn:\${Partition}:payment-cryptography:\${Region}:\${Account}:alias/\${Alias}	<a href="#">payment-cryptography:ResourceAliases</a>

## Condition keys for AWS Payment Cryptography

AWS Payment Cryptography defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by both the key and value of the tag in the request for the specified operation	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags assigned to a key for the specified operation	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in the request for the specified operation	ArrayOfString
<a href="#">payment-cryptography:CertificateAuthorityPublicKeyIdentifier</a>	Filters access by the CertificateAuthorityPublicKeyIdentifier specified in the request or the ImportKey, and ExportKey operations	String
<a href="#">payment-cryptography</a>	Filters access by the type of key material being imported [RootCertificatePublicKey, TrustedCertificatePublicKey	String

Condition keys	Description	Type
<a href="#">hy:ImportKeyMaterial</a>	, Tr34KeyBlock, Tr31KeyBlock, DiffieHellmanTr31KeyBlock, As2805KeyCryptogram] for the ImportKey operation	
<a href="#">payment-cryptographhy:KeyAlgorithm</a>	Filters access by KeyAlgorithm specified in the request for the CreateKey operation	String
<a href="#">payment-cryptographhy:KeyClass</a>	Filters access by KeyClass specified in the request for the CreateKey operation	String
<a href="#">payment-cryptographhy:KeyUsage</a>	Filters access by KeyClass specified in the request or associated with a key for the CreateKey operation	String
<a href="#">payment-cryptographhy:RequestAlias</a>	Filters access by aliases in the request for the specified operation	String
<a href="#">payment-cryptographhy:ResourceAliases</a>	Filters access by aliases associated with a key for the specified operation	ArrayOfString
<a href="#">payment-cryptographhy:WrappingKeyIdentifier</a>	Filters access by the WrappingKeyIdentifier specified in the request for the ImportKey, and ExportKey operations	String

## Actions, resources, and condition keys for AWS Payments

AWS Payments (service prefix: `payments`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Payments](#)
- [Resource types defined by AWS Payments](#)
- [Condition keys for AWS Payments](#)

## Actions defined by AWS Payments


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptFinancingApplicationTerms</a>	Grants permission to accept financing application terms provided by a lender	Write			
<a href="#">CreateFinancingApplication</a>	Grants permission to create a financing application	Write			
<a href="#">CreatePaymentInstrument</a>	Grants permission to create a payment instrument	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePaymentInstrument</a> [permission only]	Grants permission to delete a payment instrument	Write			
<a href="#">GetFinancingApplication</a>	Grants permission to get information about a financing application	Read			
<a href="#">GetFinancingLine</a>	Grants permission to get information about a financing line	Read			
<a href="#">GetFinancingLineWithdrawal</a>	Grants permission to get information about a financing line withdrawal	Read			
<a href="#">GetFinancingOption</a>	Grants permission to get information about a financing option	Read			
<a href="#">GetPaymentInstrument</a>	Grants permission to get information about a payment instrument	List	<a href="#">payment-instrument</a>		
<a href="#">GetPaymentStatus</a> [permission only]	Grants permission to get payment status of invoices	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFinancingApplications</a>	Grants permission to list financing application metadata	List			
<a href="#">ListFinancingLineWithdrawals</a>	Grants permission to list financing line withdrawals metadata	List			
<a href="#">ListFinancingLines</a>	Grants permission to list financing line metadata	List			
<a href="#">ListPaymentInstruments</a> [permission only]	Grants permission to list payment instrument metadata	List			
<a href="#">ListPaymentPreferences</a> [permission only]	Grants permission to get payment preferences (preferred payment currency, preferred payment method, etc.)	List			
<a href="#">ListPaymentProgramOptions</a>	Grants permission to list information about payment options	List			
<a href="#">ListPaymentProgramStatus</a>	Grants permission to list information about payment program eligibility and enrolment status	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags on a payment resource	List	<a href="#">payment-instrument</a>		
<a href="#">MakePayment</a> [permission only]	Grants permission to make a payment, authenticate a payment, verify a payment method, and generate a funding request document for Advance Pay	Write			
<a href="#">TagResource</a>	Grants permission to tag a payment resource	Tagging	<a href="#">payment-instrument</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a payment resource	Tagging	<a href="#">payment-instrument</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateFinancingApplication</a>	Grants permission to update a financing application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePaymentInstrument</a> [permission only]	Grants permission to update a payment instrument	Write			
<a href="#">UpdatePaymentPreferences</a> [permission only]	Grants permission to update payment preferences (preferred payment currency, preferred payment method, etc.)	Write			

## Resource types defined by AWS Payments

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">payment-instrument</a>	arn:\${Partition}:payments::\${Account}:payment-instrument:\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Payments

AWS Payments defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Performance Insights

AWS Performance Insights (service prefix: `pi`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Performance Insights](#)
- [Resource types defined by AWS Performance Insights](#)
- [Condition keys for AWS Performance Insights](#)

## Actions defined by AWS Performance Insights

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePerformanceAnalysisReport</a>	Grants permission to call CreatePerformanceAnalysisReport API to create a Performance Analysis Report for a specified DB instance	Write	<a href="#">perf-reports-resource*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeletePerformanceAnalysisReport</a>	Grants permission to call DeletePerformanceAnalysisReport API to delete a Performance Analysis Report for a specified DB instance	Write	<a href="#">perf-reports-resource*</a>		
<a href="#">DescribeDimensionKeys</a>	Grants permission to call DescribeDimensionKeys API to retrieve the top N dimension keys for a metric for a specific time period	Read	<a href="#">metric-source*</a>		
				<a href="#">pi:Dimensions</a>	
<a href="#">GetDimensionKeyDetails</a>	Grants permission to call GetDimensionKeyDetails API to retrieve the attributes of the specified dimension group	Read	<a href="#">metric-source*</a>		
				<a href="#">pi:Dimensions</a>	
<a href="#">GetPerformanceAnalysisReport</a>	Grants permission to call GetPerformanceAnalysisReport API to retrieve a	Read	<a href="#">perf-reports-resource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Performance Analysis Report for a specified DB instance				
<a href="#">GetResourceMetadata</a>	Grants permission to call GetResourceMetadata API to retrieve the metadata for different features	Read	<a href="#">metric-resource*</a>		
<a href="#">GetResourceMetrics</a>	Grants permission to call GetResourceMetrics API to retrieve PI metrics for a set of data sources, over a time period	Read	<a href="#">metric-resource*</a>	<a href="#">pi:Dimensions</a>	
<a href="#">ListAvailableResourceDimensions</a>	Grants permission to call ListAvailableResourceDimensions API to retrieve the dimensions that can be queried for each specified metric type on a specified DB instance	Read	<a href="#">metric-resource*</a>		
<a href="#">ListAvailableResourceMetrics</a>	Grants permission to call ListAvailableResourceMetrics API to retrieve metrics of the specified types that can be queried for a specified DB instance	Read	<a href="#">metric-resource*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPerformanceAnalysisReports</a>	Grants permission to call ListPerformanceAnalysisReports API to list Performance Analysis Reports for a specified DB instance	List	<a href="#">perf-reports-resource*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to call ListTagsForResource API to list tags for a resource	List	<a href="#">metric-resource*</a>		
			<a href="#">perf-reports-resource*</a>		
<a href="#">TagResource</a>	Grants permission to call TagResource API to tag a resource	Tagging	<a href="#">perf-reports-resource*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to call UntagResource API to untag a resource	Tagging	<a href="#">perf-reports-resource*</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Performance Insights

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">metric-resource</a>	arn:\${Partition}:pi:\${Region}:\${Account}:metrics/\${ServiceType}/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">perf-reports-resource</a>	arn:\${Partition}:pi:\${Region}:\${Account}:perf-reports/\${ServiceType}/\${Identifier}/\${ReportId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Performance Insights

AWS Performance Insights defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">pi:Dimensions</a>	Filters access by the requested dimensions	ArrayOfString

## Actions, resources, and condition keys for Amazon Personalize

Amazon Personalize (service prefix: `personalize`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Personalize](#)
- [Resource types defined by Amazon Personalize](#)
- [Condition keys for Amazon Personalize](#)

## Actions defined by Amazon Personalize


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBatchInferenceJob</a>	Grants permission to create a batch inference job	Write	<a href="#">batchInferenceJob*</a>		
<a href="#">CreateBatchSegmentJob</a>	Grants permission to create a batch segment job	Write	<a href="#">batchSegmentJob*</a>		
<a href="#">CreateCampaign</a>	Grants permission to create a campaign	Write	<a href="#">campaign*</a>		
<a href="#">CreateDataDeletionJob</a>	Grants permission to create a data deletion job	Write	<a href="#">dataDeletionJob*</a>		
<a href="#">CreateDataInsightsJob</a>	Grants permission to create a data insights job	Write	<a href="#">dataInsightsJob*</a>		
<a href="#">CreateDataset</a>	Grants permission to create a dataset	Write	<a href="#">dataset*</a>		
<a href="#">CreateDatasetExportJob</a>	Grants permission to create a dataset export job	Write	<a href="#">datasetExportJob*</a>		
<a href="#">CreateDatasetGroup</a>	Grants permission to create a dataset group	Write	<a href="#">datasetGroup*</a>		
<a href="#">CreateDatasetImportJob</a>	Grants permission to create a dataset import job	Write	<a href="#">datasetImportJob*</a>		
<a href="#">CreateEventTracker</a>	Grants permission to create an event tracker	Write	<a href="#">eventTracker*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFilter</a>	Grants permission to create a filter	Write	<a href="#">filter*</a>		
<a href="#">CreateMetricAttribution</a>	Grants permission to create a metric attribution	Write	<a href="#">metricAttribution*</a>		
<a href="#">CreateRecommender</a>	Grants permission to create a recommender	Write	<a href="#">recommender*</a>		
<a href="#">CreateSchema</a>	Grants permission to create a schema	Write	<a href="#">schema*</a>		
<a href="#">CreateSolution</a>	Grants permission to create a solution	Write	<a href="#">solution*</a>		
<a href="#">CreateSolutionVersion</a>	Grants permission to create a solution version	Write	<a href="#">solution*</a>		
<a href="#">DeleteCampaign</a>	Grants permission to delete a campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteDataset</a>	Grants permission to delete a dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteDatasetGroup</a>	Grants permission to delete a dataset group	Write	<a href="#">datasetGroup*</a>		
<a href="#">DeleteEventTracker</a>	Grants permission to delete an event tracker	Write	<a href="#">eventTracker*</a>		
<a href="#">DeleteFilter</a>	Grants permission to delete a filter	Write	<a href="#">filter*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMetricAttribution</a>	Grants permission to delete a metric attribution	Write	<a href="#">metricAttribution*</a>		
<a href="#">DeleteRecommender</a>	Grants permission to delete a recommender	Write	<a href="#">recommender*</a>		
<a href="#">DeleteSchema</a>	Grants permission to delete a schema	Write	<a href="#">schema*</a>		
<a href="#">DeleteSolution</a>	Grants permission to delete a solution including all versions of the solution	Write	<a href="#">solution*</a>		
<a href="#">DescribeAlgorithm</a>	Grants permission to describe an algorithm	Read	<a href="#">algorithm*</a>		
<a href="#">DescribeBatchInferenceJob</a>	Grants permission to describe a batch inference job	Read	<a href="#">batchInferenceJob*</a>		
<a href="#">DescribeBatchSegmentJob</a>	Grants permission to describe a batch segment job	Read	<a href="#">batchSegmentJob*</a>		
<a href="#">DescribeCampaign</a>	Grants permission to describe a campaign	Read	<a href="#">campaign*</a>		
<a href="#">DescribeDataDeletionJob</a>	Grants permission to describe a data deletion job	Read	<a href="#">dataDeletionJob*</a>		
<a href="#">DescribeDataInsightsJob</a>	Grants permission to describe a data insights job	Read	<a href="#">dataInsightsJob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDataset</a>	Grants permission to describe a dataset	Read	<a href="#">dataset*</a>		
<a href="#">DescribeDatasetExportJob</a>	Grants permission to describe a dataset export job	Read	<a href="#">datasetExportJob*</a>		
<a href="#">DescribeDatasetGroup</a>	Grants permission to describe a dataset group	Read	<a href="#">datasetGroup*</a>		
<a href="#">DescribeDatasetImportJob</a>	Grants permission to describe a dataset import job	Read	<a href="#">datasetImportJob*</a>		
<a href="#">DescribeEventTracker</a>	Grants permission to describe an event tracker	Read	<a href="#">eventTracker*</a>		
<a href="#">DescribeFeatureTransformation</a>	Grants permission to describe a feature transformation	Read	<a href="#">featureTransformation*</a>		
<a href="#">DescribeFilter</a>	Grants permission to describe a filter	Read	<a href="#">filter*</a>		
<a href="#">DescribeMetricAttribution</a>	Grants permission to describe a metric attribution	Read	<a href="#">metricAttribution*</a>		
<a href="#">DescribeRecipe</a>	Grants permission to describe a recipe	Read	<a href="#">recipe*</a>		
<a href="#">DescribeRecommender</a>	Grants permission to describe a recommender	Read	<a href="#">recommender*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSchema</a>	Grants permission to describe a schema	Read	<a href="#">schema*</a>		
<a href="#">DescribeSolution</a>	Grants permission to describe a solution	Read	<a href="#">solution*</a>		
<a href="#">DescribeSolutionVersion</a>	Grants permission to describe a version of a solution	Read	<a href="#">solution*</a>		
<a href="#">GetActionRecommendations</a>	Grants permission to get a list of recommended actions	Read	<a href="#">campaign*</a>		
<a href="#">GetDataInsights</a>	Grants permission to get data insights from a data insights job	Read	<a href="#">dataInsightsJob*</a>		
<a href="#">GetPersonalizedRanking</a>	Grants permission to get a re-ranked list of recommendations	Read	<a href="#">campaign*</a>		
<a href="#">GetRecommendations</a>	Grants permission to get a list of recommendations from a campaign	Read	<a href="#">campaign*</a>		
<a href="#">GetSolutionMetrics</a>	Grants permission to get metrics for a solution version	Read	<a href="#">solution*</a>		
<a href="#">ListBatchInferenceJobs</a>	Grants permission to list batch inference jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBatchSegmentJobs</a>	Grants permission to list batch segment jobs	List			
<a href="#">ListCampaigns</a>	Grants permission to list campaigns	List			
<a href="#">ListDataDeletionJobs</a>	Grants permission to list data deletion jobs	List			
<a href="#">ListDataInsightsJobs</a>	Grants permission to list data insights jobs	List			
<a href="#">ListDatasetExportJobs</a>	Grants permission to list dataset export jobs	List			
<a href="#">ListDatasetGroups</a>	Grants permission to list dataset groups	List			
<a href="#">ListDatasetImportJobs</a>	Grants permission to list dataset import jobs	List			
<a href="#">ListDatasets</a>	Grants permission to list datasets	List			
<a href="#">ListEventTrackers</a>	Grants permission to list event trackers	List			
<a href="#">ListFilters</a>	Grants permission to list filters	List			
<a href="#">ListMetricAttributionMetrics</a>	Grants permission to list metric attribution metrics	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMetricAttributions</a>	Grants permission to list metric attributions	List			
<a href="#">ListRecipes</a>	Grants permission to list recipes	List			
<a href="#">ListRecommenders</a>	Grants permission to list recommenders	List			
<a href="#">ListSchemas</a>	Grants permission to list schemas	List			
<a href="#">ListSolutionVersions</a>	Grants permission to list versions of a solution	List			
<a href="#">ListSolutions</a>	Grants permission to list solutions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	List			
<a href="#">PutActionInteractions</a>	Grants permission to put real time action interaction data	Write			
<a href="#">PutActions</a>	Grants permission to ingest Actions data	Write	<a href="#">dataset*</a>		
<a href="#">PutEvents</a>	Grants permission to put real time event data	Write			
<a href="#">PutItems</a>	Grants permission to ingest Items data	Write	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutUsers</a>	Grants permission to ingest Users data	Write	<a href="#">dataset*</a>		
<a href="#">StartRecommender</a>	Grants permission to start a recommender	Write	<a href="#">recommender*</a>		
<a href="#">StopRecommender</a>	Grants permission to stop a recommender	Write	<a href="#">recommender*</a>		
<a href="#">StopSolutionVersionCreation</a>	Grants permission to stop a solution version creation	Write	<a href="#">solution*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging			
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging			
<a href="#">UpdateCampaign</a>	Grants permission to update a campaign	Write	<a href="#">campaign*</a>		
<a href="#">UpdateDataset</a>	Grants permission to update a dataset	Write	<a href="#">dataset*</a>		
<a href="#">UpdateMetricAttribution</a>	Grants permission to update a metric attribution	Write	<a href="#">metricAttribution*</a>		
<a href="#">UpdateRecommender</a>	Grants permission to update a recommender	Write	<a href="#">recommender*</a>		
<a href="#">UpdateSolution</a>	Grants permission to update a solution	Write	<a href="#">solution*</a>		



## Resource types defined by Amazon Personalize

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">schema</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:schema/\${ResourceId}	
<a href="#">featureTransformation</a>	arn:\${Partition}:personalize:::feature-transformation/\${ResourceId}	
<a href="#">dataset</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:dataset/\${ResourceId}	
<a href="#">datasetGroup</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:dataset-group/\${ResourceId}	
<a href="#">datasetImportJob</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:dataset-import-job/\${ResourceId}	
<a href="#">dataInsightsJob</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:data-insights-job/\${ResourceId}	
<a href="#">datasetExportJob</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:dataset-export-job/\${ResourceId}	

Resource types	ARN	Condition keys
<a href="#">dataDeletionJob</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:data-deletion-job/\${ResourceId}	
<a href="#">solution</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:solution/\${ResourceId}	
<a href="#">campaign</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:campaign/\${ResourceId}	
<a href="#">eventTracker</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:event-tracker/\${ResourceId}	
<a href="#">recipe</a>	arn:\${Partition}:personalize:::recipe/\${ResourceId}	
<a href="#">algorithm</a>	arn:\${Partition}:personalize:::algorithm/\${ResourceId}	
<a href="#">batchInferenceJob</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:batch-inference-job/\${ResourceId}	
<a href="#">filter</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:filter/\${ResourceId}	
<a href="#">recommender</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:recommender/\${ResourceId}	
<a href="#">batchSegmentJob</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:batch-segment-job/\${ResourceId}	

Resource types	ARN	Condition keys
<a href="#">metricAttribution</a>	arn:\${Partition}:personalize:\${Region}:\${Account}:metric-attribution/\${ResourceId}	

## Condition keys for Amazon Personalize

Personalize has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Pinpoint

Amazon Pinpoint (service prefix: `mobiletargeting`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Pinpoint](#)
- [Resource types defined by Amazon Pinpoint](#)
- [Condition keys for Amazon Pinpoint](#)

## Actions defined by Amazon Pinpoint

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApp</a>	Grants permission to create an app	Write	<a href="#">apps*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateCampaign</a>	Grants permission to create a campaign for an app	Write	<a href="#">app*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateEmailTemplate</a>	Grants permission to create an email template	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateExportJob</a>	Grants permission to create an export job that exports endpoint definitions to Amazon S3	Write	<a href="#">app*</a>	<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateImportJob</a>	Grants permission to import endpoint definitions from to create a segment	Write	<a href="#">app*</a>		
<a href="#">CreateInAppTemplate</a>	Grants permission to create an in-app message template	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateJourney</a>	Grants permission to create a Journey for an app	Write	<a href="#">journeys*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreatePushTemplate</a>	Grants permission to create a push notification template	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateRecommendationConfiguration</a>	Grants permission to create an Amazon Pinpoint configuration for a recommender model	Write	<a href="#">recommenders*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSegment</a>	Grants permission to create a segment that is based on endpoint data reported to Pinpoint by your app. To allow a user to create a segment by importing endpoint data from outside of Pinpoint, allow the <code>mobiletargeting:CreateImportJob</code> action	Write	<a href="#">app*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateSmsTemplate</a>	Grants permission to create an sms message template	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateVoiceTemplate</a>	Grants permission to create a voice message template	Write	<a href="#">template*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAdmChannel</a>	Grants permission to delete the ADM channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteApnsChannel</a>	Grants permission to delete the APNs channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteApnsSandboxChannel</a>	Grants permission to delete the APNs sandbox channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteApnsVoipChannel</a>	Grants permission to delete the APNs VoIP channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteApnsVoipSandboxChannel</a>	Grants permission to delete the APNs VoIP sandbox channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteApp</a>	Grants permission to delete a specific campaign	Write	<a href="#">app*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBaiduChannel</a>	Grants permission to delete the Baidu channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteCampaign</a>	Grants permission to delete a specific campaign	Write	<a href="#">campaign*</a>		
<a href="#">DeleteEmailChannel</a>	Grants permission to delete the email channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteEmailTemplate</a>	Grants permission to delete an email template or an email template version	Write	<a href="#">template*</a>		
<a href="#">DeleteEndpoint</a>	Grants permission to delete an endpoint	Write	<a href="#">endpoint*</a>		
<a href="#">DeleteEventStream</a>	Grants permission to delete the event stream for an app	Write	<a href="#">event-stream*</a>		
<a href="#">DeleteGcmChannel</a>	Grants permission to delete the GCM channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteInAppTemplate</a>	Grants permission to delete an in-app message template or an in-app message template version	Write	<a href="#">template*</a>		
<a href="#">DeleteJourney</a>	Grants permission to delete a specific journey	Write	<a href="#">journey*</a>		
<a href="#">DeletePushTemplate</a>	Grants permission to delete a push notification template or a push notification template version	Write	<a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRecommenderConfiguration</a>	Grants permission to delete an Amazon Pinpoint configuration for a recommender model	Write	<a href="#">recommender*</a>		
<a href="#">DeleteSegment</a>	Grants permission to delete a specific segment	Write	<a href="#">segment*</a>		
<a href="#">DeleteSmsChannel</a>	Grants permission to delete the SMS channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteSmsTemplate</a>	Grants permission to delete an sms message template or an sms message template version	Write	<a href="#">template*</a>		
<a href="#">DeleteUserEndpoints</a>	Grants permission to delete all of the endpoints that are associated with a user ID	Write	<a href="#">user*</a>		
<a href="#">DeleteVoiceChannel</a>	Grants permission to delete the Voice channel for an app	Write	<a href="#">channel*</a>		
<a href="#">DeleteVoiceTemplate</a>	Grants permission to delete a voice message template or a voice message template version	Write	<a href="#">template*</a>		
<a href="#">GetAdmChannel</a>	Grants permission to retrieve information about the Amazon Device Messaging (ADM) channel for an app	Read	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApnsChannel</a>	Grants permission to retrieve information about the APNs channel for an app	Read	<a href="#">channel*</a>		
<a href="#">GetApnsSandboxChannel</a>	Grants permission to retrieve information about the APNs sandbox channel for an app	Read	<a href="#">channel*</a>		
<a href="#">GetApnsVoipChannel</a>	Grants permission to retrieve information about the APNs VoIP channel for an app	Read	<a href="#">channel*</a>		
<a href="#">GetApnsVoipSandboxChannel</a>	Grants permission to retrieve information about the APNs VoIP sandbox channel for an app	Read	<a href="#">channel*</a>		
<a href="#">GetApp</a>	Grants permission to retrieve information about a specific app in your Amazon Pinpoint account	Read	<a href="#">app*</a>		
<a href="#">GetApplicationDateRangeKpi</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard metric that applies to an application	Read	<a href="#">application-metrics*</a>		
<a href="#">GetApplicationSettings</a>	Grants permission to retrieve the default settings for an app	List	<a href="#">app*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApps</a>	Grants permission to retrieve a list of apps in your Amazon Pinpoint account	Read	<a href="#">apps*</a>		
<a href="#">GetBaiduChannel</a>	Grants permission to retrieve information about the Baidu channel for an app	Read	<a href="#">channel*</a>		
<a href="#">GetCampaign</a>	Grants permission to retrieve information about a specific campaign	Read	<a href="#">campaign*</a>		
<a href="#">GetCampaignActivities</a>	Grants permission to retrieve information about the activities performed by a campaign	List	<a href="#">campaign*</a>		
<a href="#">GetCampaignDateRangeKpi</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard metric that applies to a campaign	Read	<a href="#">campaign-metrics*</a>		
<a href="#">GetCampaignVersion</a>	Grants permission to retrieve information about a specific campaign version	Read	<a href="#">campaign*</a>		
<a href="#">GetCampaignVersions</a>	Grants permission to retrieve information about the current and prior versions of a campaign	List	<a href="#">campaign*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCampaigns</a>	Grants permission to retrieve information about all campaigns for an app	List	<a href="#">app*</a>		
<a href="#">GetChannels</a>	Grants permission to get all channels information for your app	List	<a href="#">channels*</a>		
<a href="#">GetEmailChannel</a>	Grants permission to obtain information about the email channel in an app	Read	<a href="#">channel*</a>		
<a href="#">GetEmailTemplate</a>	Grants permission to retrieve information about a specific or the active version of an email template	Read	<a href="#">template*</a>		
<a href="#">GetEndpoint</a>	Grants permission to retrieve information about a specific endpoint	Read	<a href="#">endpoint*</a>		
<a href="#">GetEventStream</a>	Grants permission to retrieve information about the event stream for an app	Read	<a href="#">event-stream*</a>		
<a href="#">GetExportJob</a>	Grants permission to obtain information about a specific export job	Read	<a href="#">export-job*</a>		
<a href="#">GetExportJobs</a>	Grants permission to retrieve a list of all of the export jobs for an app	List	<a href="#">app*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGcmChannel</a>	Grants permission to retrieve information about the GCM channel for an app	Read	<a href="#">channel*</a>		
<a href="#">GetImportJob</a>	Grants permission to retrieve information about a specific import job	Read	<a href="#">import-job*</a>		
<a href="#">GetImportJobs</a>	Grants permission to retrieve information about all import jobs for an app	List	<a href="#">app*</a>		
<a href="#">GetInAppMessages</a>	Grants permission to retrieve in-app messages for the given endpoint id	Read	<a href="#">app*</a>		
<a href="#">GetInAppTemplate</a>	Grants permission to retrieve information about a specific or the active version of an in-app message template	Read	<a href="#">template*</a>		
<a href="#">GetJourney</a>	Grants permission to retrieve information about a specific journey	Read	<a href="#">journey*</a>		
<a href="#">GetJourneyDateRangeKpi</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard engagement metric that applies to a journey	Read	<a href="#">journey-metrics*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetJourneyExecutionActivityMetrics</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard execution metric that applies to a journey activity	Read	<a href="#">journey-execution-activity-metrics*</a>		
<a href="#">GetJourneyExecutionMetrics</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard execution metric that applies to a journey	Read	<a href="#">journey-execution-metrics*</a>		
<a href="#">GetJourneyRunExecutionActivityMetrics</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard execution metric that applies to a journey activity for a single journey run	Read	<a href="#">journey*</a>		
<a href="#">GetJourneyRunExecutionMetrics</a>	Grants permission to retrieve (queries) pre-aggregated data for a standard execution metric that applies to a journey for a single journey run	Read	<a href="#">journey*</a>		
<a href="#">GetJourneyRuns</a>	Grants permission to retrieve information about all journey runs for a journey	List	<a href="#">journey*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPushTemplate</a>	Grants permission to retrieve information about a specific or the active version of a push notification template	Read	<a href="#">template*</a>		
<a href="#">GetRecommenderConfiguration</a>	Grants permission to retrieve information about an Amazon Pinpoint configuration for a recommender model	Read	<a href="#">recommender*</a>		
<a href="#">GetRecommenderConfigurations</a>	Grants permission to retrieve information about all the recommender model configurations that are associated with an Amazon Pinpoint account	List	<a href="#">recommenders*</a>		
<a href="#">GetReports</a> [permission only]	Grants permission to mobiletargeting:GetReports	Read	<a href="#">reports*</a>		
<a href="#">GetSegment</a>	Grants permission to retrieve information about a specific segment	Read	<a href="#">segment*</a>		
<a href="#">GetSegmentExportJobs</a>	Grants permission to retrieve information about jobs that export endpoint definitions from segments to Amazon S3	List	<a href="#">segment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSegmentImportJobs</a>	Grants permission to retrieve information about jobs that create segments by importing endpoint definitions from	List	<a href="#">segment*</a>		
<a href="#">GetSegmentVersion</a>	Grants permission to retrieve information about a specific segment version	Read	<a href="#">segment*</a>		
<a href="#">GetSegmentVersions</a>	Grants permission to retrieve information about the current and prior versions of a segment	List	<a href="#">segment*</a>		
<a href="#">GetSegments</a>	Grants permission to retrieve information about the segments for an app	List	<a href="#">app*</a>		
<a href="#">GetSmsChannel</a>	Grants permission to obtain information about the SMS channel in an app	Read	<a href="#">channel*</a>		
<a href="#">GetSmsTemplate</a>	Grants permission to retrieve information about a specific or the active version of an sms message template	Read	<a href="#">template*</a>		
<a href="#">GetUserEndpoints</a>	Grants permission to retrieve information about the endpoints that are associated with a user ID	Read	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetVoiceChannel</a>	Grants permission to obtain information about the Voice channel in an app	Read	<a href="#">channel*</a>		
<a href="#">GetVoiceTemplate</a>	Grants permission to retrieve information about a specific or the active version of a voice message template	Read	<a href="#">template*</a>		
<a href="#">ListJourneys</a>	Grants permission to retrieve information about all journeys for an app	List	<a href="#">app*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">app</a>		
			<a href="#">campaign</a>		
			<a href="#">journey</a>		
			<a href="#">segment</a>		
			<a href="#">template</a>		
<a href="#">ListTemplateVersions</a>	Grants permission to retrieve all versions about a specific template	List	<a href="#">template*</a>		
<a href="#">ListTemplates</a>	Grants permission to retrieve metadata about the queried templates	List	<a href="#">templates*</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PhoneNumberValidate</a>	Grants permission to obtain metadata for a phone number, such as the number type (mobile, landline, or VoIP), location, and provider	Read	<a href="#">phone-number-validate*</a>		
<a href="#">PutEventStream</a>	Grants permission to create or update an event stream for an app	Write	<a href="#">event-stream*</a>		
<a href="#">PutEvents</a>	Grants permission to create or update events for an app	Write	<a href="#">events*</a>		
<a href="#">RemoveAttributes</a>	Grants permission to remove the attributes for an app	Write	<a href="#">attribute*</a>		
<a href="#">SendMessage</a>	Grants permission to send an SMS message or push notification to specific endpoints	Write	<a href="#">messages*</a>		
<a href="#">SendOTPMessage</a>	Grants permission to send an OTP code to a user of your application	Write	<a href="#">otp*</a>		
<a href="#">SendUsersMessages</a>	Grants permission to send an SMS message or push notification to all endpoints that are associated with a specific user ID	Write	<a href="#">messages*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">app</a> <a href="#">campaign</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">journey</a>		
			<a href="#">segment</a>		
			<a href="#">template</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">app</a>		
			<a href="#">campaign</a>		
			<a href="#">journey</a>		
			<a href="#">segment</a>		
			<a href="#">template</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateAdmChannel</a>	Grants permission to update the Amazon Device Messaging (ADM) channel for an app	Write	<a href="#">channel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApnsChannel</a>	Grants permission to update the Apple Push Notification service (APNs) channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateApnsSandboxChannel</a>	Grants permission to update the Apple Push Notification service (APNs) sandbox channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateApnsVoipChannel</a>	Grants permission to update the Apple Push Notification service (APNs) VoIP channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateApnsVoipSandboxChannel</a>	Grants permission to update the Apple Push Notification service (APNs) VoIP sandbox channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateApplicationSettings</a>	Grants permission to update the default settings for an app	Write	<a href="#">app*</a>		
<a href="#">UpdateBaiduChannel</a>	Grants permission to update the Baidu channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateCampaign</a>	Grants permission to update a specific campaign	Write	<a href="#">campaign*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateEmailChannel</a>	Grants permission to update the email channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateEmailTemplate</a>	Grants permission to update a specific email template under the same version or generate a new version	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateEndpoint</a>	Grants permission to create an endpoint or update the information for an endpoint	Write	<a href="#">endpoint*</a>		
<a href="#">UpdateEndpointsBatch</a>	Grants permission to create or update endpoints as a batch operation	Write	<a href="#">app*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateGcmChannel</a>	Grants permission to update the Firebase Cloud Messaging (FCM) or Google Cloud Messaging (GCM) API key that allows to send push notifications to your Android app	Write	<a href="#">channel*</a>		
<a href="#">UpdateInAppTemplate</a>	Grants permission to update a specific in-app message template under the same version or generate a new version	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateJourney</a>	Grants permission to update a specific journey	Write	<a href="#">journey*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateJourneyState</a>	Grants permission to update a specific journey state	Write	<a href="#">journey*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdatePushTemplate</a>	Grants permission to update a specific push notification template under the same version or generate a new version	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateRecommendationConfiguration</a>	Grants permission to update an Amazon Pinpoint configuration for a recommender model	Write	<a href="#">recommender*</a>		
<a href="#">UpdateSegment</a>	Grants permission to update a specific segment	Write	<a href="#">segment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSmsChannel</a>	Grants permission to update the SMS channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateSmsTemplate</a>	Grants permission to update a specific sms message template under the same version or generate a new version	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateTemplateActiveVersion</a>	Grants permission to update the active version parameter of a specific template	Write	<a href="#">template*</a>		
<a href="#">UpdateVoiceChannel</a>	Grants permission to update the Voice channel for an app	Write	<a href="#">channel*</a>		
<a href="#">UpdateVoiceTemplate</a>	Grants permission to update a specific voice message template under the same version or generate a new version	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">VerifyOTPMessage</a>	Grants permission to check the validity of One-Time Passwords (OTPs)	Write	<a href="#">verify-otp*</a>		

## Resource types defined by Amazon Pinpoint

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">app</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">apps</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/*	
<a href="#">campaign</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/campaigns/\${CampaignId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">journey</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/journeys/\${JourneyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">journeys</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/journeys	
<a href="#">segment</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/segments/\${SegmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">template</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:templates/\${TemplateName}/\${TemplateType}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">templates</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:templates	
<a href="#">recommender</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:recommenders/\${RecommenderId}	
<a href="#">recommenders</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:recommenders/*	
<a href="#">phone-number-validate</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:phone/number/validate	
<a href="#">channels</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/channels	
<a href="#">channel</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/channels/\${ChannelType}	
<a href="#">event-stream</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/eventstream	
<a href="#">events</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/events	
<a href="#">messages</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/messages	

Resource types	ARN	Condition keys
<a href="#">verify-otp</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/verify-otp	
<a href="#">otp</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/otp	
<a href="#">attribute</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/attributes/\${AttributeType}	
<a href="#">user</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/users/\${UserId}	
<a href="#">endpoint</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/endpoints/\${EndpointId}	
<a href="#">import-job</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/jobs/import/\${JobId}	
<a href="#">export-job</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/jobs/export/\${JobId}	
<a href="#">application-metrics</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/kpis/daterange/\${KpiName}	
<a href="#">campaign-metrics</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/campaigns/\${CampaignId}/kpis/daterange/\${KpiName}	

Resource types	ARN	Condition keys
<a href="#">journey-metrics</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/journeys/\${JourneyId}/kpis/daterange/\${KpiName}	
<a href="#">journey-execution-metrics</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/journeys/\${JourneyId}/execution-metrics	
<a href="#">journey-execution-activity-metrics</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:apps/\${AppId}/journeys/\${JourneyId}/activities/\${JourneyActivityId}/execution-metrics	
<a href="#">reports</a>	arn:\${Partition}:mobiletargeting:\${Region}:\${Account}:reports	

## Condition keys for Amazon Pinpoint

Amazon Pinpoint defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a key that is present in the request the user makes to the pinpoint service	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names present in the request the user makes to the pinpoint service	ArrayOfString

## Actions, resources, and condition keys for Amazon Pinpoint Email Service

Amazon Pinpoint Email Service (service prefix: ses) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Pinpoint Email Service](#)
- [Resource types defined by Amazon Pinpoint Email Service](#)
- [Condition keys for Amazon Pinpoint Email Service](#)

## Actions defined by Amazon Pinpoint Email Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfigurationSet</a>	Grants permission to create a configuration set	Write		<a href="#">ses:ApiVersion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateConfigurationSetEventDestination</a>	Grants permission to create a configuration set event destination	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateDedicatedIpPool</a>	Grants permission to create a new pool of dedicated IP addresses	Write		<a href="#">ses:ApiVersion</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateDeliverabilityTestReport</a>	Grants permission to create a new predictive inbox placement test	Write	<a href="#">identity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEmailIdentity</a>	Grants permission to start the process of verifying an email identity	Write		<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteConfigurationSet</a>	Grants permission to delete an existing configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConfigurationSetEventDestination</a>	Grants permission to delete an event destination	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDedicatedIpPool</a>	Grants permission to delete a dedicated IP pool	Write	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEmailIdentity</a>	Grants permission to delete an email identity that you previously verified	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccount</a>	Grants permission to get information about the email-sending status and capabilities	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetBlacklistReports</a>	Grants permission to retrieve a list of the deny lists on which your dedicated IP addresses appear	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetConfigurationSet</a>	Grants permission to get information about an existing configuration set	Read	<a href="#">configuration-set*</a>		
				<a href="#">ses:ApiVersion</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">GetConfigurationSetEventDestinations</a>	Grants permission to retrieve a list of event destinations that are associated with a configuration set	Read	<a href="#">configuration-set*</a>		
				<a href="#">ses:ApiVersion</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDedicatedIp</a>	Grants permission to get information about a dedicated IP address	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetDedicatedIps</a>	Grants permission to list the dedicated IP addresses that are associated with your account	Read	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeliverabilityDashboardOptions</a>	Grants permission to get the status of the Deliverability dashboard	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetDeliverabilityTestReport</a>	Grants permission to retrieve the results of a predictive inbox placement test	Read	<a href="#">deliverability-test-report*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDomainDeliverabilityCampaign</a>	Grants permission to retrieve all the deliverability data for a specific campaign	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetDomainStatisticsReport</a>	Grants permission to retrieve inbox placement and engagement rates for the domains that you use to send email	Read	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEmailIdentity</a>	Grants permission to get information about a specific identity associated with your account	Read	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListConfigurationSets</a>	Grants permission to list all of the configuration sets associated with your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListDedicatedIpPools</a>	Grants permission to list all of the dedicated IP pools that exist in your account	List		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDeliverabilityTestReports</a>	Grants permission to retrieve a list of the predictive inbox placement tests that you've performed, regardless of their statuses	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListDomainDeliverabilityCampaigns</a>	Grants permission to retrieve deliverability data for all the campaigns that used a specific domain to send email during a specified time range	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">ListEmailIdentities</a>	Grants permission to list all of the email identities that are associated with your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of the tags (keys and values) that are associated with a specific resource	Read	<a href="#">configuration-set</a>		
			<a href="#">dedicated-ip-pool</a>		
			<a href="#">deliverability-test-report</a>		
			<a href="#">identity</a>		
	<a href="#">ses:ApiVersion</a>				

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccountDedicatedWarmupAttributes</a>	Grants permission to enable or disable the automatic warm-up feature for dedicated IP addresses	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutAccountSendingAttributes</a>	Grants permission to enable or disable the ability of your account to send email	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutConfigurationSetDeliveryOptions</a>	Grants permission to associate a configuration set with a dedicated IP pool	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a>	
<a href="#">PutConfigurationSetReputationOptions</a>	Grants permission to enable or disable collection of reputation metrics for emails that you send using a particular configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutConfigurationSetSendingOptions</a>	Grants permission to enable or disable email sending for messages that use a particular configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutConfigurationSetTrackingOptions</a>	Grants permission to specify a custom domain to use for open and click tracking elements in email that you send using a particular configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutDedicatedIpInPool</a>	Grants permission to move a dedicated IP address to an existing dedicated IP pool	Write	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutDedicatedIpWarmupAttributes</a>	Grants permission to enable dedicated IP warm up attributes	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutDeliverabilityDashboardOption</a>	Grants permission to enable or disable the Deliverability dashboard	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutEmailIdentityDkimAttributes</a>	Grants permission to enable or disable DKIM authentication for an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutEmailIdentityFeedbackAttributes</a>	Grants permission to enable or disable feedback forwarding for an identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutEmailIdentityMailFromAttributes</a>	Grants permission to enable or disable the custom MAIL FROM domain configuration for an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SendEmail</a>	Grants permission to send an email message	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">ses:FeedbackAddresses</a> <a href="#">ses:FromAddress</a> <a href="#">ses:FromDisplayName</a> <a href="#">ses:Recipients</a>	
<a href="#">TagResource</a>	Grants permission to add one or more tags (keys and values) to a specified resource	Tagging	<a href="#">configuration-set</a> <a href="#">dedicated-ip-pool</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">deliverability-test-report</a>		
			<a href="#">identity</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags (keys and values) from a specified resource	Tagging	<a href="#">configuration-set</a>		
			<a href="#">dedicated-ip-pool</a>		
			<a href="#">deliverability-test-report</a>		
			<a href="#">identity</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConfigurationSetEventDestination</a>	Grants permission to update the configuration of an event destination for a configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Pinpoint Email Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">configuration-set</a>	arn:\${Partition}:ses:\${Region}:\${Account}:configuration-set/\${ConfigurationSetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dedicated-ip-pool</a>	arn:\${Partition}:ses:\${Region}:\${Account}:dedicated-ip-pool/\${DedicatedIPPool}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">deliverability-test-report</a>	arn:\${Partition}:ses:\${Region}:\${Account}:deliverability-test-report/\${ReportId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">identity</a>	arn:\${Partition}:ses:\${Region}:\${Account}:identity/\${IdentityName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Pinpoint Email Service

Amazon Pinpoint Email Service defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString
<a href="#">ses:ApiVersion</a>	Filters actions based on the SES API version	String
<a href="#">ses:FeedbackAddress</a>	Filters actions based on the "Return-Path" address, which specifies where bounces and complaints are sent by email feedback forwarding	String

Condition keys	Description	Type
<a href="#">ses:FromAddress</a>	Filters actions based on the "From" address of a message	String
<a href="#">ses:FromDisplayName</a>	Filters actions based on the "From" address that is used as the display name of a message	String
<a href="#">ses:Recipients</a>	Filters actions based on the recipient addresses of a message, which include the "To", "CC", and "BCC" addresses	ArrayOfString

## Actions, resources, and condition keys for Amazon Pinpoint SMS and Voice Service

Amazon Pinpoint SMS and Voice Service (service prefix: `sms-voice`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Pinpoint SMS and Voice Service](#)
- [Resource types defined by Amazon Pinpoint SMS and Voice Service](#)
- [Condition keys for Amazon Pinpoint SMS and Voice Service](#)

## Actions defined by Amazon Pinpoint SMS and Voice Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfigurationSet</a>	Create a new configuration set. After you create the configuration set, you can add one or more event destinations to it.	Write			
<a href="#">CreateConfigurationSetEventDestination</a>	Create a new event destination in a configuration set.	Write			iam:PassRole
<a href="#">DeleteConfigurationSet</a>	Deletes an existing configuration set.	Write			
<a href="#">DeleteConfigurationSetEventDestination</a>	Deletes an event destination in a configuration set.	Write			
<a href="#">GetConfigurationSetEventDestinations</a>	Obtain information about an event destination, including the types of events it reports, the Amazon Resource Name (ARN) of the destination, and the name of the event destination.	Read			
<a href="#">ListConfigurationSets</a>	Return a list of configuration sets. This operation only returns the configuration sets that are associated with your	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	account in the current AWS Region.				
<a href="#">SendVoiceMessage</a>	Create a new voice message and send it to a recipient's phone number.	Write			
<a href="#">UpdateConfigurationSetEventDestination</a>	Update an event destination in a configuration set. An event destination is a location that you publish information about your voice calls to. For example, you can log an event to an Amazon CloudWatch destination when a call fails.	Write			iam:PassRole

## Resource types defined by Amazon Pinpoint SMS and Voice Service

Amazon Pinpoint SMS and Voice Service does not support specifying a resource ARN in the `Resource` element of an IAM policy statement. To allow access to Amazon Pinpoint SMS and Voice Service, specify `"Resource": "*" in your policy.`

## Condition keys for Amazon Pinpoint SMS and Voice Service

Pinpoint SMS Voice has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Polly

Amazon Polly (service prefix: `polly`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Polly](#)
- [Resource types defined by Amazon Polly](#)
- [Condition keys for Amazon Polly](#)

## Actions defined by Amazon Polly

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLexicon</a>	Grants permission to delete the specified pronunciation lexicon stored in an AWS Region	Write	<a href="#">lexicon*</a>		
<a href="#">DescribeVoices</a>	Grants permission to describe the list of voices that are available for use when requesting speech synthesis	List			
<a href="#">GetLexicon</a>	Grants permission to retrieve the content of the specified	Read	<a href="#">lexicon*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	pronunciation lexicon stored in an AWS Region				
<a href="#">GetSpeechSynthesisTask</a>	Grants permission to get information about specific speech synthesis task	Read			
<a href="#">ListLexicons</a>	Grants permission to list the pronunciation lexicons stored in an AWS Region	List			
<a href="#">ListSpeechSynthesisTasks</a>	Grants permission to list requested speech synthesis tasks	List			
<a href="#">PutLexicon</a>	Grants permission to store a pronunciation lexicon in an AWS Region	Write	<a href="#">lexicon*</a>		
<a href="#">StartSpeechSynthesisStream</a>	Grants permission to perform synthesis with bidirectional streaming	Read	<a href="#">lexicon</a>		
<a href="#">StartSpeechSynthesisTask</a>	Grants permission to synthesize long inputs to the provided S3 location	Write	<a href="#">lexicon</a>		s3:PutObject
<a href="#">SynthesizeSpeech</a>	Grants permission to synthesize speech	Read	<a href="#">lexicon</a>		

## Resource types defined by Amazon Polly

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">lexicon</a>	arn:\${Partition}:polly:\${Region}:\${Account}:lexicon/\${LexiconName}	

## Condition keys for Amazon Polly

Polly has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Price List

AWS Price List (service prefix: `pricing`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Price List](#)
- [Resource types defined by AWS Price List](#)
- [Condition keys for AWS Price List](#)

## Actions defined by AWS Price List

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeServices</a>	Grants permission to retrieve service details for all (paginated) services (if serviceCode is not set) or service detail for a particular service (if given serviceCode)	Read			
<a href="#">GetAttributeValues</a>	Grants permission to retrieve all (paginated) possible values for a given attribute	Read			
<a href="#">GetPriceListFileUrl</a>	Grants permission to retrieve the price list file URL for the given parameters	Read			
<a href="#">GetProducts</a>	Grants permission to retrieve all matching products with given search criteria	Read			
<a href="#">ListPriceLists</a>	Grants permission to list all (paginated) eligible price lists for the given parameters	Read			

## Resource types defined by AWS Price List

AWS Price List does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Price List, specify "Resource": "\*" in your policy.

## Condition keys for AWS Price List

Price List has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).



## Actions, resources, and condition keys for AWS PricingPlanManager Service

AWS PricingPlanManager Service (service prefix: `pricingplanmanager`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS PricingPlanManager Service](#)
- [Resource types defined by AWS PricingPlanManager Service](#)
- [Condition keys for AWS PricingPlanManager Service](#)

### Actions defined by AWS PricingPlanManager Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Resources ToSubscription</a>	Grants permission to associate resources with a subscription	Write			
<a href="#">CancelSubscription</a>	Grants permission to cancel a subscription	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelSubscriptionChange</a>	Grants permission to cancel a pending a change for a subscription	Write			
<a href="#">CreateSubscription</a>	Grants permission to create a subscription	Write			
<a href="#">DisassociateResourcesFromSubscription</a>	Grants permission to disassociate resources from a subscription	Write			
<a href="#">GetSubscription</a>	Grants permission to get the details for a subscription	Read			
<a href="#">ListSubscriptions</a>	Grants permission to list subscriptions in your account	Read			
<a href="#">UpdateSubscription</a>	Grants permission to update a subscription	Write			

## Resource types defined by AWS PricingPlanManager Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">subscription</a>	arn:\${Partition}:pricingplanmanager:\${Account}:subscription/\${SubscriptionId}	

## Condition keys for AWS PricingPlanManager Service

PricingPlanManager has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Private CA Connector for Active Directory

AWS Private CA Connector for Active Directory (service prefix: pca-connector-ad) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Private CA Connector for Active Directory](#)
- [Resource types defined by AWS Private CA Connector for Active Directory](#)
- [Condition keys for AWS Private CA Connector for Active Directory](#)

## Actions defined by AWS Private CA Connector for Active Directory

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,


you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnector</a>	Grants permission to create a Connector in your account	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	acm-pca:DescribeCertificateAuthority acm-pca:GetCertificate acm-pca:GetCertificateAuthorityCertificate acm-pca:IssueCertificate ec2:CreateTags ec2:CreateVpcEndpoint ec2:DescribeVpcEndpoints

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDirectoryRegistration</a>	Grants permission to create a DirectoryRegistration in your account	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ds:AuthorizeApplication  ds:DescribeDirectories
<a href="#">CreateServicePrincipalName</a>	Grants permission to create a ServicePrincipalName for a DirectoryRegistration	Write	<a href="#">DirectoryRegistration*</a>		ds:UpdateAuthorizedApplication
<a href="#">CreateTemplate</a>	Grants permission to create a Template for a Connector	Write	<a href="#">Connector*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTemplateGroupAccessControlEntry</a>	Grants permission to create a TemplateGroupAccessControlEntry for a Template	Write	<a href="#">Template*</a>		
<a href="#">DeleteConnector</a>	Grants permission to delete a Connector in your account	Write	<a href="#">Connector*</a>		ec2:DeleteVpcEndpoints  ec2:DescribeVpcEndpoints
<a href="#">DeleteDirectoryRegistration</a>	Grants permission to delete a DirectoryRegistration in your account	Write	<a href="#">DirectoryRegistration*</a>		ds:UnauthorizeApplication  ds:UpdateAuthorizedApplication
<a href="#">DeleteServicePrincipalName</a>	Grants permission to delete a ServicePrincipalName for a DirectoryRegistration	Write	<a href="#">DirectoryRegistration*</a>		ds:UpdateAuthorizedApplication
<a href="#">DeleteTemplate</a>	Grants permission to delete a Template for a Connector	Write	<a href="#">Template*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTemplateGroupAccessControlEntry</a>	Grants permission to delete a TemplateGroupAccessControlEntry for a Template	Write	<a href="#">Template*</a>		
<a href="#">GetConnector</a>	Grants permission to get a Connector in your account	Read	<a href="#">Connector*</a>		
<a href="#">GetDirectoryRegistration</a>	Grants permission to get a DirectoryRegistration in your account	Read	<a href="#">DirectoryRegistration*</a>		
<a href="#">GetServicePrincipalName</a>	Grants permission to get a ServicePrincipalName for a DirectoryRegistration	Read	<a href="#">DirectoryRegistration*</a>		
<a href="#">GetTemplate</a>	Grants permission to get a Template for a Connector	Read	<a href="#">Template*</a>		
<a href="#">GetTemplateGroupAccessControlEntry</a>	Grants permission to get a TemplateGroupAccessControlEntry for a Template	Read	<a href="#">Template*</a>		
<a href="#">ListConnectors</a>	Grants permission to list the Connectors in your account	List			
<a href="#">ListDirectoryRegistrations</a>	Grants permission to list the DirectoryRegistrations in your account	List			
<a href="#">ListServicePrincipalNames</a>	Grants permission to list the ServicePrincipalNames for a DirectoryRegistration	List	<a href="#">DirectoryRegistration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a pca-connector-ad resource in your account	Read			
<a href="#">ListTemplateGroupAccessControlEntries</a>	Grants permission to list the TemplateGroupAccessControlEntries for a Template	List	<a href="#">Template*</a>		
<a href="#">ListTemplates</a>	Grants permission to list the Templates for a Connector	List	<a href="#">Connector*</a>		
<a href="#">TagResource</a>	Grants permission to tag a pca-connector-ad resource in your account	Tagging	<a href="#">Connector</a>		
			<a href="#">DirectoryRegistration</a>		
			<a href="#">Template</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a pca-connector-ad resource in your account	Tagging	<a href="#">Connector</a>		
			<a href="#">DirectoryRegistration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Template</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateTemplate</a>	Grants permission to update a Template for a Connector	Write	<a href="#">Template*</a>		
<a href="#">UpdateTemplateGroupAccessControlEntry</a>	Grants permission to update a TemplateGroupAccessControlEntry for a Template	Write	<a href="#">Template*</a>		

## Resource types defined by AWS Private CA Connector for Active Directory

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Connector</a>	arn:\${Partition}:pca-connector-ad:\${Region}:\${Account}:connector/\${ConnectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Directory Registration</a>	arn:\${Partition}:pca-connector-ad:\${Region}:\${Account}:directory-registration/\${DirectoryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Template</a>	arn:\${Partition}:pca-connector-ad:\${Region}:\${Account}:connector/\${ConnectorId}/template/\${TemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Private CA Connector for Active Directory

AWS Private CA Connector for Active Directory defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Private CA Connector for SCEP

AWS Private CA Connector for SCEP (service prefix: `pca-connector-scep`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Private CA Connector for SCEP](#)
- [Resource types defined by AWS Private CA Connector for SCEP](#)
- [Condition keys for AWS Private CA Connector for SCEP](#)

## Actions defined by AWS Private CA Connector for SCEP

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateChallenge</a>	Grants permission to create a Challenge for a Connector	Write	<a href="#">Connector</a> * -	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateConnector</a>	Grants permission to create a SCEP Connector in your account	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	acm-pca:DescribeCertificateAuthority

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					acm-pca:GetCertificate acm-pca:GetCertificateAuthorityCertificate acm-pca:IssueCertificate
<a href="#">DeleteChallenge</a>	Grants permission to delete a Challenge for a Connector	Write	<a href="#">Challenge</a> *		
<a href="#">DeleteConnector</a>	Grants permission to delete a SCEP Connector in your account	Write	<a href="#">Connector</a> *		
<a href="#">GetChallengeMetadata</a>	Grants permission to get a Challenge for a Connector	Read	<a href="#">Challenge</a> *		
<a href="#">GetChallengePassword</a>	Grants permission to get a Challenge password for a Connector	Read	<a href="#">Challenge</a> *		
<a href="#">GetConnector</a>	Grants permission to get a SCEP Connector in your account	Read	<a href="#">Connector</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListChallengeMetadata</a>	Grants permission to list Challenges for a Connector	List			
<a href="#">ListConnectors</a>	Grants permission to list the SCEP Connectors in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a pca-connector-scep resource in your account	Read			
<a href="#">TagResource</a>	Grants permission to tag a pca-connector-scep resource in your account	Tagging	<a href="#">Challenge</a>		
			<a href="#">Connector</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a pca-connector-scep resource in your account	Tagging	<a href="#">Challenge</a>		
			<a href="#">Connector</a>		
				<a href="#">aws:TagKeys</a>	



## Resource types defined by AWS Private CA Connector for SCEP

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Challenge</a>	arn:\${Partition}:pca-connector-scep:\${Region}:\${Account}:connector/\${ConnectorId}/challenge/\${ChallengeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Connector</a>	arn:\${Partition}:pca-connector-scep:\${Region}:\${Account}:connector/\${ConnectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Private CA Connector for SCEP

AWS Private CA Connector for SCEP defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Private Certificate Authority

AWS Private Certificate Authority (service prefix: acm-pca) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Private Certificate Authority](#)
- [Resource types defined by AWS Private Certificate Authority](#)
- [Condition keys for AWS Private Certificate Authority](#)

## Actions defined by AWS Private Certificate Authority

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCertificateAuthority</a>	Grants permission to create an AWS Private CA and its associated private key and configuration	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateCertificateAuthorityAuditReport</a>	Grants permission to create an audit report for an AWS Private CA	Write	<a href="#">certificate-authority*</a>		
<a href="#">CreatePermission</a>	Grants permission to create a permission for an AWS Private CA	Permissions management	<a href="#">certificate-authority*</a>		
<a href="#">DeleteCertificateAuthority</a>	Grants permission to delete an AWS Private CA and its associated private key and configuration	Write	<a href="#">certificate-authority*</a>		
<a href="#">DeletePermission</a>	Grants permission to delete a permission for an AWS Private CA	Permissions management	<a href="#">certificate-authority*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePolicy</a>	Grants permission to delete the policy for an AWS Private CA	Permissions management	<a href="#">certificate-authority*</a>		
<a href="#">DescribeCertificateAuthority</a>	Grants permission to return a list of the configuration and status fields contained in the specified AWS Private CA	Read	<a href="#">certificate-authority*</a>		
<a href="#">DescribeCertificateAuthorityAuditReport</a>	Grants permission to return the status and information about an AWS Private CA audit report	Read	<a href="#">certificate-authority*</a>		
<a href="#">GetCertificate</a>	Grants permission to retrieve an AWS Private CA certificate and certificate chain for the certificate authority specified by an ARN	Read	<a href="#">certificate-authority*</a>		
<a href="#">GetCertificateAuthorityCertificate</a>	Grants permission to retrieve an AWS Private CA certificate and certificate chain for the certificate authority specified by an ARN	Read	<a href="#">certificate-authority*</a>		
<a href="#">GetCertificateAuthorityCsr</a>	Grants permission to retrieve an AWS Private CA certificate signing request (CSR) for the certificate-authority specified by an ARN	Read	<a href="#">certificate-authority*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPolicy</a>	Grants permission to retrieve the policy on an AWS Private CA	Read	<a href="#">certificate-authority*</a>		
<a href="#">ImportCertificateAuthorityCertificate</a>	Grants permission to import an SSL/TLS certificate into AWS Private CA for use as the CA certificate of an AWS Private CA	Write	<a href="#">certificate-authority*</a>		
<a href="#">IssueCertificate</a>	Grants permission to issue an AWS Private CA certificate	Write	<a href="#">certificate-authority*</a>		
				<a href="#">acm-pca:TemplateArn</a>	
<a href="#">ListCertificateAuthorities</a>	Grants permission to retrieve a list of the AWS Private CA certificate authority ARNs, and a summary of the status of each CA in the calling account	List			
<a href="#">ListPermissions</a>	Grants permission to list the permissions that have been applied to the AWS Private CA certificate authority	Read	<a href="#">certificate-authority*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTags</a>	Grants permission to list the tags that have been applied to the AWS Private CA certificate authority	Read	<a href="#">certificate-authority*</a>		
<a href="#">PutPolicy</a>	Grants permission to put a policy on an AWS Private CA	Permissions management	<a href="#">certificate-authority*</a>		
<a href="#">RestoreCertificateAuthority</a>	Grants permission to restore an AWS Private CA from the deleted state to the state it was in when deleted	Write	<a href="#">certificate-authority*</a>		
<a href="#">RevokeCertificate</a>	Grants permission to revoke a certificate issued by an AWS Private CA	Write	<a href="#">certificate-authority*</a>		
<a href="#">TagCertificateAuthority</a>	Grants permission to add one or more tags to an AWS Private CA	Tagging	<a href="#">certificate-authority*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagCertificateAuthority</a>	Grants permission to remove one or more tags from an AWS Private CA	Tagging	<a href="#">certificate-authority*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCertificateAuthority</a>	Grants permission to update the configuration of an AWS Private CA	Write	<a href="#">certificate-authority*</a>		

## Resource types defined by AWS Private Certificate Authority

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">certificate-authority</a>	arn:\${Partition}:acm-pca:\${Region}:\${Account}:certificate-authority/\${CertificateAuthorityId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Private Certificate Authority

AWS Private Certificate Authority defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions



under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">acm-pca:TemplateArn</a>	Filters access by the arn of the certificate template used in Issue Certificate request	ARN
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS PrivateLink

AWS PrivateLink (service prefix: vpce) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS PrivateLink](#)
- [Resource types defined by AWS PrivateLink](#)
- [Condition keys for AWS PrivateLink](#)

## Actions defined by AWS PrivateLink

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowMultiRegion</a> [permission only]	Grants permission to manage multi-region VPC endpoints and VPC endpoint service configurations	Write	<a href="#">vpc-endpoint</a>		
			<a href="#">vpc-endpoint-service</a>		

## Resource types defined by AWS PrivateLink

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">vpc-endpoint</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-endpoint/\${VpcEndpointId}	
<a href="#">vpc-endpoint-service</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:vpc-endpoint-service/\${VpcEndpointServiceId}	

## Condition keys for AWS PrivateLink

VPC Endpoints has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Proton

AWS Proton (service prefix: `proton`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Proton](#)
- [Resource types defined by AWS Proton](#)
- [Condition keys for AWS Proton](#)

## Actions defined by AWS Proton

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptEnvironmentAccountConnection</a>	Grants permission to reject an environment account connection request from another environment account	Write	<a href="#">environment-account-connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelComponentDeployment</a>	Grants permission to cancel component deployment	Write	<a href="#">component*</a>		
<a href="#">CancelEnvironmentDeployment</a>	Grants permission to cancel an environment deployment	Write	<a href="#">environment*</a>	<a href="#">proton:EnvironmentTemplate</a>	
<a href="#">CancelServiceInstanceDeployment</a>	Grants permission to cancel a service instance deployment	Write	<a href="#">service-instance*</a>	<a href="#">proton:ServiceTemplate</a>	
<a href="#">CancelServicePipelineDeployment</a>	Grants permission to cancel a service pipeline deployment	Write	<a href="#">service*</a>	<a href="#">proton:ServiceTemplate</a>	
<a href="#">CreateComponent</a>	Grants permission to create component	Write	<a href="#">component*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironment</a>	Grants permission to create an environment	Write	<a href="#">environment*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">proton:EnvironmentTemplate</a>	iam:PassRole
<a href="#">CreateEnvironmentAccountConnection</a>	Grants permission to create an environment account connection	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateEnvironmentTemplate</a>	Grants permission to create an environment template	Write	<a href="#">environment-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateEnvironmentTemplateMajorVersion</a>	Grants permission to create an environment template major version. DEPRECATED - use CreateEnvironmentTemplateVersion instead	Write	<a href="#">environment-template*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateEnvironmentTemplateMinorVersion</a>	Grants permission to create an environment template minor version. DEPRECATED - use CreateEnvironmentTemplateVersion instead	Write	<a href="#">environment-template*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironmentTemplateVersion</a>	Grants permission to create an environment template version	Write	<a href="#">environment-template*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRepository</a>	Grants permission to create a repository	Write	<a href="#">repository*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateService</a>	Grants permission to create a service	Write	<a href="#">service*</a>		codestar-connections:PassConnection

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">proton:ServiceTemplate</a>	
<a href="#">CreateServiceInstance</a>	Grants permission to create a service instance	Write	<a href="#">service-instance*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">proton:ServiceTemplate</a>	
<a href="#">CreateServiceSyncConfig</a>	Grants permission to create a service sync config	Write			
<a href="#">CreateServiceTemplate</a>	Grants permission to create a service template	Write	<a href="#">service-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateServiceTemplateMajorVersion</a>	Grants permission to create a service template major version. DEPRECATED - use CreateServiceTemplateVersion instead	Write	<a href="#">service-template*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateServiceTemplateMinorVersion</a>	Grants permission to create a service template minor version. DEPRECATED - use CreateServiceTemplateVersion instead	Write	<a href="#">service-template*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateServiceTemplateVersion</a>	Grants permission to create a service template version	Write	<a href="#">service-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateTemplateSyncConfig</a>	Grants permission to create a template sync config	Write			
<a href="#">DeleteAccountRoles</a>	Grants permission to delete account roles. DEPRECATED - use UpdateAccountSettings instead	Write			
<a href="#">DeleteComponent</a>	Grants permission to delete component	Write	<a href="#">component*</a>		
<a href="#">DeleteDeployment</a>	Grants permission to delete a deployment	Write	<a href="#">deployment*</a>		
<a href="#">DeleteEnvironment</a>	Grants permission to delete an environment	Write	<a href="#">environment*</a>		
				<a href="#">proton:EnvironmentTemplate</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEnvironmentAccountConnection</a>	Grants permission to delete an environment account connection	Write	<a href="#">environment-account-connection*</a>		
<a href="#">DeleteEnvironmentTemplate</a>	Grants permission to delete an environment template	Write	<a href="#">environment-template*</a>		
<a href="#">DeleteEnvironmentTemplateMajorVersion</a>	Grants permission to delete an environment template major version. DEPRECATED - use DeleteEnvironmentTemplateVersion instead	Write	<a href="#">environment-template*</a>		
<a href="#">DeleteEnvironmentTemplateMinorVersion</a>	Grants permission to delete an environment template minor version. DEPRECATED - use DeleteEnvironmentTemplateVersion instead	Write	<a href="#">environment-template*</a>		
<a href="#">DeleteEnvironmentTemplateVersion</a>	Grants permission to delete an environment template version	Write	<a href="#">environment-template*</a>		
<a href="#">DeleteRepository</a>	Grants permission to delete a repository	Write	<a href="#">repository*</a>		
<a href="#">DeleteService</a>	Grants permission to delete a service	Write	<a href="#">service*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">proton:ServiceTemplate</a>	
<a href="#">DeleteServiceSyncConfig</a>	Grants permission to delete a service sync config	Write			
<a href="#">DeleteServiceTemplate</a>	Grants permission to delete a service template	Write	<a href="#">service-template*</a>		
<a href="#">DeleteServiceTemplateMajorVersion</a>	Grants permission to delete a service template major version. DEPRECATED - use DeleteServiceTemplateVersion instead	Write	<a href="#">service-template*</a>		
<a href="#">DeleteServiceTemplateMinorVersion</a>	Grants permission to delete a service template minor version. DEPRECATED - use DeleteServiceTemplateVersion instead	Write	<a href="#">service-template*</a>		
<a href="#">DeleteServiceTemplateVersion</a>	Grants permission to delete a service template version	Write	<a href="#">service-template*</a>		
<a href="#">DeleteTemplateSyncConfig</a>	Grants permission to delete a TemplateSyncConfig	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountRoles</a>	Grants permission to get account roles. DEPRECATED - use GetAccountSettings instead	Read			
<a href="#">GetAccountSettings</a>	Grants permission to describe the account settings	Read			
<a href="#">GetComponent</a>	Grants permission to describe a component	Read	<a href="#">component*</a>		
<a href="#">GetDeployment</a>	Grants permission to describe a deployment	Read	<a href="#">deployment*</a>		
<a href="#">GetEnvironment</a>	Grants permission to describe an environment	Read	<a href="#">environment*</a>		
<a href="#">GetEnvironmentAccountConnection</a>	Grants permission to describe an environment account connection	Read	<a href="#">environment-account-connection*</a>		
<a href="#">GetEnvironmentTemplate</a>	Grants permission to describe an environment template	Read	<a href="#">environment-template*</a>		
<a href="#">GetEnvironmentTemplateMajorVersion</a>	Grants permission to get an environment template major version. DEPRECATED - use GetEnvironmentTemplateVersion instead	Read	<a href="#">environment-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEnvironmentTemplateMinorVersion</a>	Grants permission to get an environment template minor version. DEPRECATED - use GetEnvironmentTemplateVersion instead	Read	<a href="#">environment-template*</a>		
<a href="#">GetEnvironmentTemplateVersion</a>	Grants permission to describe an environment template version	Read	<a href="#">environment-template*</a>		
<a href="#">GetRepository</a>	Grants permission to describe a repository	Read	<a href="#">repository*</a>		
<a href="#">GetRepositorySyncStatus</a>	Grants permission to get the latest sync status for a repository	Read			
<a href="#">GetResourceTemplateVersionStatusCounts</a>	Grants permission to list resource template version status counts	Read			
<a href="#">GetResourcesSummary</a>	Grants permission to get resources summary	Read			
<a href="#">GetService</a>	Grants permission to describe a service	Read	<a href="#">service*</a>		
<a href="#">GetServiceInstance</a>	Grants permission to describe a service instance	Read	<a href="#">service-instance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetServiceInstanceSyncStatus</a>	Grants permission to describe the sync status of a service instance	Read			
<a href="#">GetServiceSyncBlockerSummary</a>	Grants permission to describe service sync blockers on a service or service instance	Read			
<a href="#">GetServiceSyncConfig</a>	Grants permission to describe a service sync config	Read			
<a href="#">GetServiceTemplate</a>	Grants permission to describe a service template	Read	<a href="#">service-template*</a>		
<a href="#">GetServiceTemplateMajorVersion</a>	Grants permission to get a service template major version. DEPRECATED - use <code>GetServiceTemplateVersion</code> instead	Read	<a href="#">service-template*</a>		
<a href="#">GetServiceTemplateMinorVersion</a>	Grants permission to get a service template minor version. DEPRECATED - use <code>GetServiceTemplateVersion</code> instead	Read	<a href="#">service-template*</a>		
<a href="#">GetServiceTemplateVersion</a>	Grants permission to describe a service template version	Read	<a href="#">service-template*</a>		
<a href="#">GetTemplateSyncConfig</a>	Grants permission to describe a <code>TemplateSyncConfig</code>	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTemplateSyncStatus</a>	Grants permission to describe the sync status of a template	Read			
<a href="#">ListComponentOutputs</a>	Grants permission to list component outputs	List	<a href="#">component*</a> <a href="#">-</a>		
			<a href="#">deployment*</a> <a href="#">-</a>		
<a href="#">ListComponentProvisionedResources</a>	Grants permission to list component provisioned resources	List	<a href="#">component*</a> <a href="#">-</a>		
<a href="#">ListComponentEnvironments</a>	Grants permission to list components	List	<a href="#">environment*</a> <a href="#">-</a>		
			<a href="#">service*</a> <a href="#">-</a>		
			<a href="#">service-instance*</a> <a href="#">-</a>		
<a href="#">ListDeployments</a>	Grants permission to list deployments	List			
<a href="#">ListEnvironmentAccountConnections</a>	Grants permission to list environment account connections	List			
<a href="#">ListEnvironmentOutputs</a>	Grants permission to list environment outputs	List	<a href="#">environment*</a> <a href="#">-</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">deployment</a>		
<a href="#">ListEnvironmentProvisionedResources</a>	Grants permission to list environment provisioned resources	List	<a href="#">environment*</a>		
<a href="#">ListEnvironmentTemplateMajorVersions</a>	Grants permission to list environment template major versions. DEPRECATED - use ListEnvironmentTemplateVersions instead	List	<a href="#">environment-template*</a>		
<a href="#">ListEnvironmentTemplateMinorVersions</a>	Grants permission to list an environment template minor versions. DEPRECATED - use ListEnvironmentTemplateVersions instead	List	<a href="#">environment-template*</a>		
<a href="#">ListEnvironmentTemplateVersions</a>	Grants permission to list environment template versions	List	<a href="#">environment-template*</a>		
<a href="#">ListEnvironmentTemplates</a>	Grants permission to list environment templates	List			
<a href="#">ListEnvironments</a>	Grants permission to list environments	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRepositories</a>	Grants permission to list repositories	List			
<a href="#">ListRepositorySyncDefinitions</a>	Grants permission to list repository sync definitions	List			
<a href="#">ListServiceInstanceOutputs</a>	Grants permission to list service instance outputs	List	<a href="#">service*</a>		
			<a href="#">service-instance*</a>		
			<a href="#">deployment</a>		
<a href="#">ListServiceInstanceProvisionedResources</a>	Grants permission to list service instance provisioned resources	List	<a href="#">service*</a>		
			<a href="#">service-instance*</a>		
<a href="#">ListServiceInstances</a>	Grants permission to list service instances	List			
<a href="#">ListServicePipelineOutputs</a>	Grants permission to list service pipeline outputs	List	<a href="#">service*</a>		
			<a href="#">deployment</a>		
<a href="#">ListServicePipelineProvisionedResources</a>	Grants permission to list service pipeline provisioned resources	List	<a href="#">service*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListServiceTemplateMajorVersions</a>	Grants permission to list service template major versions. DEPRECATED - use ListServiceTemplateVersions instead	List	<a href="#">service-template*</a>		
<a href="#">ListServiceTemplateMinorVersions</a>	Grants permission to list service template minor versions. DEPRECATED - use ListServiceTemplateVersions instead	List	<a href="#">service-template*</a>		
<a href="#">ListServiceTemplateVersions</a>	Grants permission to list service template versions	List	<a href="#">service-template*</a>		
<a href="#">ListServiceTemplates</a>	Grants permission to list service templates	List			
<a href="#">ListServices</a>	Grants permission to list services	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags of a resource	Read	<a href="#">component</a>		
			<a href="#">environment</a>		
			<a href="#">environment-account-connection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">environment-template</a>		
			<a href="#">environment-template-major-version</a>		
			<a href="#">environment-template-minor-version</a>		
			<a href="#">environment-template-version</a>		
			<a href="#">repository</a>		
			<a href="#">service</a>		
			<a href="#">service-instance</a>		
			<a href="#">service-template</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service-template-major-version</a>		
			<a href="#">service-template-minor-version</a>		
			<a href="#">service-template-version</a>		
<a href="#">NotifyResourceDeploymentStatusChange</a>	Grants permission to notify Proton of resource deployment status changes	Write	<a href="#">environment</a>		
			<a href="#">service-instance</a>		
<a href="#">RejectEnvironmentAccountConnection</a>	Grants permission to reject an environment account connection request from another environment account	Write	<a href="#">environment-account-connection*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">component</a>		
			<a href="#">environment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">environment-connection</a>		
			<a href="#">environment-template</a>		
			<a href="#">environment-template-major-version</a>		
			<a href="#">environment-template-minor-version</a>		
			<a href="#">environment-template-version</a>		
			<a href="#">repository</a>		
			<a href="#">service</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service-instance</a>		
			<a href="#">service-template</a>		
			<a href="#">service-template-major-version</a>		
			<a href="#">service-template-minor-version</a>		
			<a href="#">service-template-version</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">component</a>		
			<a href="#">environment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">environment-account-connection</a>		
			<a href="#">environment-template</a>		
			<a href="#">environment-template-major-version</a>		
			<a href="#">environment-template-minor-version</a>		
			<a href="#">environment-template-version</a>		
			<a href="#">repository</a>		
			<a href="#">service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">service-instance</a>		
			<a href="#">service-template</a>		
			<a href="#">service-template-major-version</a>		
			<a href="#">service-template-minor-version</a>		
			<a href="#">service-template-version</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountRoles</a>	Grants permission to update account roles. DEPRECATED - use UpdateAccountSettings instead	Write			iam:PassRole
<a href="#">UpdateAccountSettings</a>	Grants permission to update the account settings	Write			iam:PassRole
<a href="#">UpdateComponent</a>	Grants permission to update component	Write	<a href="#">component*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironment</a>	Grants permission to update an environment	Write	<a href="#">environment*</a>		iam:PassRole
				<a href="#">proton:EnvironmentTemplate</a>	
<a href="#">UpdateEnvironmentAccountConnection</a>	Grants permission to update an environment account connection	Write	<a href="#">environment-account-connection*</a>		
<a href="#">UpdateEnvironmentTemplate</a>	Grants permission to update an environment template	Write	<a href="#">environment-template*</a>		
<a href="#">UpdateEnvironmentTemplateMajorVersion</a>	Grants permission to update an environment template major version. DEPRECATED - use UpdateEnvironmentTemplateVersion instead	Write	<a href="#">environment-template*</a>		
<a href="#">UpdateEnvironmentTemplateMinorVersion</a>	Grants permission to update an environment template minor version. DEPRECATED - use UpdateEnvironmentTemplateVersion instead	Write	<a href="#">environment-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironmentTemplateVersion</a>	Grants permission to update an environment template version	Write	<a href="#">environment-template*</a>		
<a href="#">UpdateService</a>	Grants permission to update a service	Write	<a href="#">service*</a>	<a href="#">proton:ServiceTemplate</a>	
<a href="#">UpdateServiceInstance</a>	Grants permission to update a service instance	Write	<a href="#">service-instance*</a>	<a href="#">proton:ServiceTemplate</a>	
<a href="#">UpdateServicePipeline</a>	Grants permission to update a service pipeline	Write	<a href="#">service*</a>	<a href="#">proton:ServiceTemplate</a>	
<a href="#">UpdateServiceSyncBlocker</a>	Grants permission to update a service sync blocker	Write			
<a href="#">UpdateServiceSyncConfig</a>	Grants permission to update a service sync config	Write			
<a href="#">UpdateServiceTemplate</a>	Grants permission to update a service template	Write	<a href="#">service-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateServiceTemplateMajorVersion</a>	Grants permission to update a service template major version. DEPRECATED - use UpdateServiceTemplateVersion instead	Write	<a href="#">service-template*</a>		
<a href="#">UpdateServiceTemplateMinorVersion</a>	Grants permission to create a service template minor version. DEPRECATED - use UpdateServiceTemplateVersion instead	Write	<a href="#">service-template*</a>		
<a href="#">UpdateServiceTemplateVersion</a>	Grants permission to update a service template version	Write	<a href="#">service-template*</a>		
<a href="#">UpdateTemplateSyncConfig</a>	Grants permission to update a TemplateSyncConfig	Write			

## Resource types defined by AWS Proton

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment-template</a>	arn:\${Partition}:proton:\${Region}:\${Account}:environment-template/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">environment-template-version</a>	arn:\${Partition}:proton:\${Region}:\${Account}:environment-template/\${TemplateName}:\${MajorVersion}.\${MinorVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">environment-template-major-version</a>	arn:\${Partition}:proton:\${Region}:\${Account}:environment-template/\${TemplateName}:\${MajorVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">environment-template-minor-version</a>	arn:\${Partition}:proton:\${Region}:\${Account}:environment-template/\${TemplateName}:\${MajorVersionId}.\${MinorVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service-template</a>	arn:\${Partition}:proton:\${Region}:\${Account}:service-template/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service-template-version</a>	arn:\${Partition}:proton:\${Region}:\${Account}:service-template/\${TemplateName}:\${MajorVersion}.\${MinorVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service-template-major-version</a>	arn:\${Partition}:proton:\${Region}:\${Account}:service-template/\${TemplateName}:\${MajorVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service-template-minor-version</a>	arn:\${Partition}:proton:\${Region}:\${Account}:service-template/\${TemplateName}:\${MajorVersionId}.\${MinorVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:proton:\${Region}:\${Account}:environment/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service</a>	arn:\${Partition}:proton:\${Region}:\${Account}:service/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">service-instance</a>	arn:\${Partition}:proton:\${Region}:\${Account}:service/\${ServiceName}/service-instance/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">environment-account-connection</a>	arn:\${Partition}:proton:\${Region}:\${Account}:environment-account-connection/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">repository</a>	arn:\${Partition}:proton:\${Region}:\${Account}:repository/\${Provider}:\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">component</a>	arn:\${Partition}:proton:\${Region}:\${Account}:component/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deployment</a>	arn:\${Partition}:proton:\${Region}:\${Account}:deployment/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Proton

AWS Proton defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).



Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString
<a href="#">proton:EnvironmentTemplate</a>	Filters access by specified environment template related to resource	String
<a href="#">proton:ServiceTemplate</a>	Filters access by specified service template related to resource	String

## Actions, resources, and condition keys for AWS Purchase Orders Console

AWS Purchase Orders Console (service prefix: `purchase-orders`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Purchase Orders Console](#)
- [Resource types defined by AWS Purchase Orders Console](#)
- [Condition keys for AWS Purchase Orders Console](#)

## Actions defined by AWS Purchase Orders Console

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddPurchaseOrder</a> [permission only]	Grants permission to add a new purchase order	Write	<a href="#">purchase-order*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeletePurchaseOrder</a> [permission only]	Grants permission to delete a purchase order	Write	<a href="#">purchase-order*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetConsoleActionSetEnforced</a> [permission only]	Grants permission to view whether existing or fine-grained IAM actions are being used to control authorization to Billing, Cost Management, and Account consoles	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPurchaseOrder</a> [permission only]	Grants permission to get a purchase order	Read	<a href="#">purchase-order*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListPurchaseOrderInvoices</a> [permission only]	Grants permission to list purchase order invoices	List	<a href="#">purchase-order*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListPurchaseOrders</a> [permission only]	Grants permission to list all purchase orders for an account	List			
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to list tags for a purchase order	Read	<a href="#">purchase-order</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyPurchaseOrders</a> [permission only]	Grants permission to modify purchase orders and details	Write	<a href="#">purchase-order*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a> [permission only]	Grants permission to tag purchase orders with given key value pairs	Tagging	<a href="#">purchase-order*</a>		
<a href="#">UntagResource</a> [permission only]	Grants permission to remove tags from a purchase order	Tagging	<a href="#">purchase-order*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConsoleActionSetEnforced</a> [permission only]	Grants permission to change whether existing or fine-grained IAM actions will be used to control authorization to Billing, Cost Management, and Account consoles	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdatePurchaseOrder</a> [permission only]	Grants permission to update an existing purchase order	Write	<a href="#">purchase-order*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdatePurchaseOrderStatus</a> [permission only]	Grants permission to set purchase order status	Write	<a href="#">purchase-order*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ViewPurchaseOrders</a> [permission only]	Grants permission to view purchase orders and details	Read	<a href="#">purchase-order</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Purchase Orders Console

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">purchase-order</a>	arn:\${Partition}:purchase-orders::\${Account}:purchase-order/\${ResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Purchase Orders Console

AWS Purchase Orders Console defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the set of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for Amazon Q

Amazon Q (service prefix: q) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Q](#)
- [Resource types defined by Amazon Q](#)
- [Condition keys for Amazon Q](#)

## Actions defined by Amazon Q

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Connector Resource</a> [permission only]	Grants permission to associate an AWS resource with an Amazon Q connector	Write			
<a href="#">CreateAssignment</a> [permission only]	Grants permission to create a user or group assignment for an Amazon Q Developer Profile	Write	<a href="#">profile*</a>	<a href="#">identitystore:UserId</a> <a href="#">identitystore:GroupId</a>	
<a href="#">CreateAuthGrant</a> [permission only]	Grants permission to create OAuth user in Amazon Q	Write			kms:Decrypt  kms:GenerateDataKeyWithoutPlaintext  kms:ReEncryptFrom  kms:ReEncryptTo
<a href="#">CreateOAuthAppConnection</a>	Grants permission to register an OAuth application in Amazon Q	Write			kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					kms:GenerateDataKeyWithoutPlaintext  kms:ReEncryptFrom  kms:ReEncryptTo
<a href="#">CreatePlugin</a> [permission only]	Grants permission to create and configure a third party plugin in Amazon Q	Write	<a href="#">plugin*</a>		
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteAssignment</a> [permission only]	Grants permission to delete a user or group assignment for an Amazon Q Developer Profile	Write	<a href="#">profile*</a>		
				<a href="#">identitystore:UserId</a>  <a href="#">identitystore:GroupId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConversation</a> [permission only]	Grants permission to delete a conversation with Amazon Q	Write			
<a href="#">DeleteOAuthAppConnection</a> [permission only]	Grants permission to delete an OAuth application in Amazon Q	Write			kms:Decrypt  kms:GenerateDataKeyWithoutPlaintext  kms:ReEncryptFrom  kms:ReEncryptTo
<a href="#">DeletePlugin</a> [permission only]	Grants permission to delete a configured plugin in Amazon Q	Write	<a href="#">plugin*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GenerateCodeFromCommands</a> [permission only]	Grants permission to generate code from CLI commands in Amazon Q	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateCodeRecommendations</a> [permission only]	Grants permission to generate code recommendations in Amazon Q	Read			
<a href="#">GetConnector</a> [permission only]	Grants permission to view information about a specific Amazon Q connector	Read			
<a href="#">GetConversation</a> [permission only]	Grants permission to get individual messages associated with a specific conversation with Amazon Q	Read			
<a href="#">GetIdentityMetadata</a> [permission only]	Grants permission to Amazon Q to get the identity metadata	Read			
<a href="#">GetPlugin</a> [permission only]	Grants permission to view information about a specific configured Amazon Q plugin	Read	<a href="#">plugin*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetTroubleshootingResults</a> [permission only]	Grants permission to get troubleshooting results with Amazon Q	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConversations</a> [permission only]	Grants permission to list individual conversations associated with a specific Amazon Q user	Read			
<a href="#">ListDashboardMetrics</a> [permission only]	Grants permission to read metrics to populate Amazon Q dashboard	List			
<a href="#">ListPluginsProviders</a> [permission only]	Grants permission to list available plugins in Amazon Q	List			
<a href="#">ListPlugins</a> [permission only]	Grants permission to list configured plugins in Amazon Q	List	<a href="#">plugin*</a>		
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to list all tags associated with an Amazon Q resource	List	<a href="#">plugin</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PassRequest</a> [permission only]	Grants permission to allow Amazon Q to perform actions on your behalf	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectConnector</a> [permission only]	Grants permission to reject a connection request for an Amazon Q connector	Write			
<a href="#">SendEvent</a> [permission only]	Grants permission to trigger asynchronous Amazon Q actions	Write			kms:Decrypt kms:GenerateDataKeyWithoutPlaintext kms:ReEncryptFrom kms:ReEncryptTo
<a href="#">SendMessage</a> [permission only]	Grants permission to send a message to Amazon Q	Write			
<a href="#">StartConversation</a> [permission only]	Grants permission to start a conversation with Amazon Q	Write			
<a href="#">StartTroubleshootingAnalysis</a> [permission only]	Grants permission to start a troubleshooting analysis with Amazon Q	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTroubleshootingResolutionExplanation</a> [permission only]	Grants permission to start a troubleshooting resolution explanation with Amazon Q	Write			
<a href="#">TagResource</a> [permission only]	Grants permission to associate tags with an Amazon Q resource	Tagging	<a href="#">plugin</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to remove tags associated with an Amazon Q resource	Tagging	<a href="#">plugin</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAuthGrant</a> [permission only]	Grants permission to update OAuth user in Amazon Q	Write			kms:Decrypt  kms:GenerateDataKeyWithoutPlaintext  kms:ReEncryptFrom  kms:ReEncryptTo
<a href="#">UpdateConversation</a> [permission only]	Grants permission to update a conversation with Amazon Q	Write			
<a href="#">UpdateOAuthAppConnection</a> [permission only]	Grants permission to update an OAuth application in Amazon Q	Write			kms:Decrypt  kms:GenerateDataKeyWithoutPlaintext  kms:ReEncryptFrom  kms:ReEncryptTo

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePlugin</a> [permission only]	Grants permission to update a third party plugin in Amazon Q	Write	<a href="#">plugin*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateTroubleshootingCommandResult</a> [permission only]	Grants permission to update a troubleshooting command result with Amazon Q	Write			
<a href="#">UsePlugin</a> [permission only]	Grants permission to use Amazon Q plugins	Write	<a href="#">plugin*</a>		
<a href="#">VerifyOAuthApplication</a> [permission only]	Grants permission to verify an OAuth application in Amazon Q	Write			kms:Decrypt  kms:GenerateDataKeyWithoutPlaintext  kms:ReEncryptFrom  kms:ReEncryptTo

## Resource types defined by Amazon Q

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">profile</a>	arn:\${Partition}:codewhisperer:\${Region}:\${Account}:profile/\${Identifier}	
<a href="#">plugin</a>	arn:\${Partition}:qdeveloper:\${Region}:\${Account}:plugin/\${Identifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Q

Amazon Q defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the Amazon Q resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">identitystore:GroupId</a>	Filters access by IAM Identity Center Group ID	ArrayOfString
<a href="#">identitystore:UserId</a>	Filters access by IAM Identity Center User ID	ArrayOfString

## Actions, resources, and condition keys for Amazon Q Business

Amazon Q Business (service prefix: `qbusiness`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Q Business](#)
- [Resource types defined by Amazon Q Business](#)
- [Condition keys for Amazon Q Business](#)

## Actions defined by Amazon Q Business

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDelivery</a>	Grants permission to configure vended log delivery	Permissions	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">veryForResource</a> [permission only]	for Amazon Q Business application resource	management		<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">AssociatePermission</a>	Grants permission to associate resource based policy statement to the application	Write	<a href="#">application*</a>		qbusiness:PutResourcePolicy
<a href="#">BatchDeleteDocument</a>	Grants permission to batch delete document	Write	<a href="#">application*</a> <a href="#">index*</a>		
<a href="#">BatchPutDocument</a>	Grants permission to batch put document	Write	<a href="#">application*</a> <a href="#">index*</a>		
<a href="#">CancelSubscription</a>	Grants permission to cancel a subscription	Write	<a href="#">application*</a> <a href="#">subscription*</a>		
<a href="#">Chat</a>	Grants permission to chat using an application	Read	<a href="#">application*</a>		
<a href="#">ChatSync</a>	Grants permission to chat synchronously using an application	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CheckDocumentAccess</a>	Grants permission to check if a user has access to a document	Read	<a href="#">application*</a> <a href="#">index*</a>		
<a href="#">CreateAnonymousWebExperienceUrl</a>	Grants permission to create a unique URL for anonymous Amazon Q Business web experience	Write	<a href="#">application*</a> <a href="#">web-experience*</a>		
<a href="#">CreateApplication</a>	Grants permission to create an application	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateChatResponseConfiguration</a>	Grants permission to create a chat response configuration to the application	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataAccessor</a>	Grants permission to create DataAccessor to the application	Write	<a href="#">application*</a>		qbusiness:CreateDataAccessorWithTti
<a href="#">CreateDataAccessorWithTti</a> [permission only]	Grants permission to create AWS IAM Identity center Trusted Token Issuer based DataAccessor to the application	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataSource</a>	Grants permission to create a data source for a given application and index	Write	<a href="#">application*</a> <a href="#">index*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIndex</a>	Grants permission to create an index for a given application	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIntegration</a>	Grants permission to create a new integration for a Q Business application	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePlugin</a>	Grants permission to create a plugin for a given application	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRetriever</a>	Grants permission to create a retriever for a given application	Write	<a href="#">application*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSubscription</a>	Grants permission to create a subscription	Write	<a href="#">application*</a>		
				<a href="#">identitystore:UserId</a> <a href="#">identitystore:GroupId</a>	
<a href="#">CreateUser</a>	Grants permission to create a user	Write	<a href="#">application*</a>		
<a href="#">CreateWebExperience</a>	Grants permission to create a web experience for a given application	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete an application	Write	<a href="#">application*</a>		
<a href="#">DeleteAttachment</a>	Grants permission to delete an attachment in the current chat context	Write	<a href="#">application*</a>		
<a href="#">DeleteChatControlsConfiguration</a>	Grants permission to delete chat controls configuration for an application	Write	<a href="#">application*</a>		
<a href="#">DeleteChatResponseConfiguration</a>	Grants permission to delete a chat response configuration	Write	<a href="#">application*</a>		
			<a href="#">chat-response-configuration*</a>		
<a href="#">DeleteConversation</a>	Grants permission to delete a conversation	Write	<a href="#">application*</a>		
<a href="#">DeleteDataAccessor</a>	Grants permission to delete DataAccessor	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">data-accessor*</a>		
<a href="#">DeleteDataSource</a>	Grants permission to delete a DataSource	Write	<a href="#">application*</a>		
			<a href="#">data-source*</a>		
			<a href="#">index*</a>		
<a href="#">DeleteGroup</a>	Grants permission to delete a group	Write	<a href="#">application*</a>		
			<a href="#">index*</a>		
<a href="#">DeleteIndex</a>	Grants permission to delete an index	Write	<a href="#">application*</a>		
			<a href="#">index*</a>		
<a href="#">DeleteIntegration</a>	Grants permission to delete an integration for a Q Business application	Write	<a href="#">application*</a>		
			<a href="#">integration*</a>		
<a href="#">DeletePlugin</a>	Grants permission to delete a plugin	Write	<a href="#">application*</a>		
			<a href="#">plugin*</a>		
<a href="#">DeleteRetriever</a>	Grants permission to delete a retriever	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">retriever*</a>		
<a href="#">DeleteUser</a>	Grants permission to delete a user	Write	<a href="#">application*</a>		
<a href="#">DeleteWebExperience</a>	Grants permission to delete a web-experience	Write	<a href="#">application*</a>		
			<a href="#">web-experience*</a>		
<a href="#">DisableACLOnDataSource</a> [permission only]	Grants permission to disable the ACL crawl while creating the Amazon Q Business data source resource	Write	<a href="#">application*</a>		
<a href="#">DisassociatePermission</a>	Grants permission to disassociate resource based policy statement to the application	Write	<a href="#">application*</a>		qbusiness:PutResourcePolicy
<a href="#">GetApplication</a>	Grants permission to get an application	Read	<a href="#">application*</a>		
<a href="#">GetChatControlsConfiguration</a>	Grants permission to get chat controls configuration for an application	List	<a href="#">application*</a>		
<a href="#">GetChatResponseConfiguration</a>	Grants permission to get a chat response configuration	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">chat-response-configuration*</a>		
<a href="#">GetDataAccessor</a>	Grants permission to get DataAccessor	Read	<a href="#">application*</a>		
			<a href="#">data-accessor*</a>		
<a href="#">GetDataSource</a>	Grants permission to get a data source	Read	<a href="#">application*</a>		
			<a href="#">data-source*</a>		
			<a href="#">index*</a>		
<a href="#">GetDocumentContent</a>	Grants permission to get a document content	Read	<a href="#">application*</a>		
			<a href="#">index*</a>		
<a href="#">GetGroup</a>	Grants permission to get a group	Read	<a href="#">application*</a>		
			<a href="#">index*</a>		
<a href="#">GetIndex</a>	Grants permission to get an index	Read	<a href="#">application*</a>		
			<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIntegration</a>	Grants permission to get an integration for a Q Business application	Read	<a href="#">application*</a>		
			<a href="#">integration*</a>		
<a href="#">GetMedia</a>	Grants permission to get the media associated to a system message	Read	<a href="#">application*</a>		
<a href="#">GetPlugin</a>	Grants permission to get a plugin	Read	<a href="#">application*</a>		
			<a href="#">plugin*</a>		
<a href="#">GetPolicy</a>	Grants permission to get resource based policy of the application	Read	<a href="#">application*</a>		
<a href="#">GetRetriever</a>	Grants permission to get a retriever	Read	<a href="#">application*</a>		
			<a href="#">retriever*</a>		
<a href="#">GetUser</a>	Grants permission to get a user	Read	<a href="#">application*</a>		
<a href="#">GetWebExperience</a>	Grants permission to get a web-experience	Read	<a href="#">application*</a>		
			<a href="#">web-experience*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplications</a>	Grants permission to list the applications	List			
<a href="#">ListAttachments</a>	Grants permission to list attachments in the current chat context	List	<a href="#">application*</a>		
<a href="#">ListChatResponseConfigurations</a>	Grants permission to list chat response configurations for an application	List	<a href="#">application*</a>		
<a href="#">ListConversations</a>	Grants permission to list all conversations for an application	List	<a href="#">application*</a>		
<a href="#">ListDataAccessors</a>	Grants permission to list DataAccessors for the application	List	<a href="#">application*</a>		
<a href="#">ListDataSourceSyncJobs</a>	Grants permission to get Data Source sync job history	List	<a href="#">application*</a>		
			<a href="#">data-source*</a>		
<a href="#">ListDataSources</a>	Grants permission to list the data sources of an application and an index	List	<a href="#">application*</a>		
			<a href="#">index*</a>		
<a href="#">ListDocuments</a>	Grants permission to list all documents	List	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">index*</a>		
<a href="#">ListGroups</a>	Grants permission to list groups	List	<a href="#">application*</a>		
			<a href="#">index*</a>		
<a href="#">ListIndices</a>	Grants permission to list the indices of an application	List	<a href="#">application*</a>		
<a href="#">ListIntegrations</a>	Grants permission to list all integrations for a Q Business application	List	<a href="#">application*</a>		
<a href="#">ListMessages</a>	Grants permission to list all messages	List	<a href="#">application*</a>		
<a href="#">ListPluginActions</a>	Grants permission to list the plugins actions of a plugin within application	Read	<a href="#">application*</a>		
			<a href="#">plugin*</a>		
<a href="#">ListPluginTypeActions</a>	Grants permission to list all the actions for a plugin type	Read			
<a href="#">ListPluginTypeMetadata</a>	Grants permission to list all the plugin type metadata	Read			
<a href="#">ListPlugins</a>	Grants permission to list the plugins of an application	List	<a href="#">application*</a>		
<a href="#">ListRetrievers</a>	Grants permission to list the retrievers of an application	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSubscriptions</a>	Grants permission to list subscriptions	List	<a href="#">application*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">application</a>		
			<a href="#">chat-response-configuration</a>		
			<a href="#">data-accessor</a>		
			<a href="#">data-source</a>		
			<a href="#">index</a>		
			<a href="#">integration</a>		
			<a href="#">plugin</a>		
			<a href="#">retriever</a>		
<a href="#">ListWebExperiences</a>	Grants permission to list the web experiences of an application	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFeedback</a>	Grants permission to put feedback about a conversation message	Write	<a href="#">application*</a>		
<a href="#">PutGroup</a>	Grants permission to put a group of users	Write	<a href="#">application*</a>		
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to put resource based policy statement to the application	Write	<a href="#">application*</a>		
<a href="#">SearchRelevantContent</a>	Grants permission to search relevant content from the Amazon Q Business Application	Read	<a href="#">application*</a>		
<a href="#">StartDataSourceSyncJob</a>	Grants permission to start Data Source sync job	Write	<a href="#">application*</a>		
			<a href="#">data-source*</a>		
			<a href="#">index*</a>		
<a href="#">StartDeployment</a>	Grants permission to start deployment for an integration	Write	<a href="#">application*</a>		
			<a href="#">integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopDataSourceSyncJob</a>	Grants permission to stop Data Source sync job	Write	<a href="#">application*</a>		
			<a href="#">data-source*</a>		
			<a href="#">index*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">application</a>		
			<a href="#">chat-response-configuration</a>		
			<a href="#">data-accessor</a>		
			<a href="#">data-source</a>		
			<a href="#">index</a>		
			<a href="#">integration</a>		
			<a href="#">plugin</a>		
			<a href="#">retriever</a>		
			<a href="#">web-experience</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the tag with the given key from a resource	Tagging	<a href="#">application</a> <a href="#">chat-response-configuration</a> <a href="#">data-accessor</a> <a href="#">data-source</a> <a href="#">index</a> <a href="#">integration</a> <a href="#">plugin</a> <a href="#">retriever</a> <a href="#">web-experience</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update an Application	Write	<a href="#">application*</a>		
<a href="#">UpdateChatControlsConfiguration</a>	Grants permission to update chat controls configuration for an application	Write	<a href="#">application*</a>		
<a href="#">UpdateChatResponseConfiguration</a>	Grants permission to update a chat response configuration	Write	<a href="#">application*</a>		
			<a href="#">chat-response-configuration*</a>		
<a href="#">UpdateDataAccessor</a>	Grants permission to update DataAccessor	Write	<a href="#">application*</a>		
			<a href="#">data-accessor*</a>		
<a href="#">UpdateDataSource</a>	Grants permission to update a DataSource	Write	<a href="#">application*</a>		
			<a href="#">data-source*</a>		
			<a href="#">index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIndex</a>	Grants permission to update an index	Write	<a href="#">application*</a> <a href="#">index*</a>		
<a href="#">UpdateIntegration</a>	Grants permission to update an integration for a Q Business application	Write	<a href="#">application*</a> <a href="#">integration*</a>		
<a href="#">UpdatePlugin</a>	Grants permission to update a plugin	Write	<a href="#">application*</a> <a href="#">plugin*</a>		
<a href="#">UpdateRetriever</a>	Grants permission to update a Retriever	Write	<a href="#">application*</a> <a href="#">retriever*</a>		
<a href="#">UpdateSubscription</a>	Grants permission to update a subscription	Write	<a href="#">application*</a> <a href="#">subscription*</a>		
<a href="#">UpdateUser</a>	Grants permission to update a user	Write	<a href="#">application*</a>		
<a href="#">UpdateWebExperience</a>	Grants permission to update a WebExperience	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">web-experience*</a>		

## Resource types defined by Amazon Q Business

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">integration</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/integration/\${IntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">retriever</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/retriever/\${RetrieverId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">index</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/index/\${IndexId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">data-source</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/index/\${IndexId}/data-source/\${DataSourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">plugin</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/plugin/\${PluginId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">web-experience</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/web-experience/\${WebExperienceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subscription</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/subscription/\${SubscriptionId}	
<a href="#">data-accessor</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/data-accessor/\${DataAccessorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">chat-response-configuration</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}/chat-response-configuration/\${ChatResponseConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Q Business

Amazon Q Business defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">identity:GroupId</a>	Filters access by IAM Identity Center Group ID	ArrayOfString
<a href="#">identity:UserId</a>	Filters access by IAM Identity Center User ID	ArrayOfString

## Actions, resources, and condition keys for Amazon Q Business Q Apps

Amazon Q Business Q Apps (service prefix: qapps) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Q Business Q Apps](#)
- [Resource types defined by Amazon Q Business Q Apps](#)
- [Condition keys for Amazon Q Business Q Apps](#)

## Actions defined by Amazon Q Business Q Apps

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate LibraryItemReview</a>	Grants permission to associate a library item review in the Q Business application environment	Write	<a href="#">qapp*</a>	<a href="#">qapps:Use rIsAppOwner</a> <a href="#">qapps:App IsPublished</a>	
<a href="#">Associate QAppWithUser</a>	Grants permission to associate Q App with a user in the Q Business application environment	Write	<a href="#">application</a> <a href="#">qapp</a>	<a href="#">qapps:Use rIsAppOwner</a> <a href="#">qapps:App IsPublished</a>	
<a href="#">BatchCreateCategory</a>	Grants permission to create the categories of a library in the Q Business application environment	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteCategory</a>	Grants permission to delete the categories of a library in the Q Business application environment	Write	<a href="#">application*</a>		
<a href="#">BatchUpdateCategory</a>	Grants permission to update the categories of a library in the Q Business application environment	Write	<a href="#">application*</a>		
<a href="#">CopyQApp</a> [permission only]	Grants permission to copy Q App in the Q Business application environment	Write	<a href="#">application</a> <a href="#">qapp</a>	<a href="#">qapps:UseIsAppOwner</a> <a href="#">qapps:AppIsPublished</a>	
<a href="#">CreateLibraryItem</a>	Grants permission to create a library item in the Q Business application environment	Write	<a href="#">application</a> <a href="#">qapp</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">qapps:UseRlsAppOwner</a> <a href="#">qapps:AppIsPublished</a>	
<a href="#">CreateLibraryItemReview</a> [permission only]	Grants permission to create a library item review in the Q Business application environment	Write	<a href="#">application</a> <a href="#">qapp</a>	<a href="#">qapps:UseRlsAppOwner</a> <a href="#">qapps:AppIsPublished</a>	
<a href="#">CreateQApp</a>	Grants permission to create Q App in the Q Business application environment	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubscriptionToken</a> [permission only]	Grants permission to subscribe to a Q App event bus topic in the Q Business application environment	Write	<a href="#">application*</a>		
<a href="#">DeleteLibraryItem</a>	Grants permission to delete a library item in the Q Business application environment	Write	<a href="#">application</a>		
			<a href="#">qapp</a>	<a href="#">qapps:UseRlsAppOwner</a>	
				<a href="#">qapps:AppIsPublished</a>	
<a href="#">DeleteQApp</a>	Grants permission to delete Q App in the Q Business application environment	Write	<a href="#">application</a>		
			<a href="#">qapp</a>		
				<a href="#">qapps:UseRlsAppOwner</a>	
				<a href="#">qapps:AppIsPublished</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeQAppPermissions</a>	Grants permission to get Q App sharing permissions in the Q Business application environment	Read	<a href="#">application</a>		
			<a href="#">qapp</a>	<a href="#">qapps:UseRlsAppOwner</a>	
				<a href="#">qapps:AppIsPublished</a>	
<a href="#">DisassociateLibraryItemReview</a>	Grants permission to disassociate a library item review in the Q Business application environment	Write	<a href="#">qapp*</a>		
				<a href="#">qapps:UseRlsAppOwner</a>	
				<a href="#">qapps:AppIsPublished</a>	
<a href="#">DisassociateQAppFromUser</a>	Grants permission to disassociate Q App with a user in the Q Business application environment	Write	<a href="#">application</a>		
			<a href="#">qapp</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">qapps:Use rIsAppOwn er</a>  <a href="#">qapps:App IsPublish ed</a>	
<a href="#">ExportQAp pSessionData</a>	Grants permission to export Q App session data in the Q Business application environment	Write	<a href="#">qapp- session*</a>		
<a href="#">GetLibrar yItem</a>	Grants permission to get a library item in the Q Business application environment	Read	<a href="#">applicati on</a>		
			<a href="#">qapp</a>	<a href="#">qapps:Use rIsAppOwn er</a>  <a href="#">qapps:App IsPublish ed</a>	
<a href="#">GetQApp</a>	Grants permission to get Q App in the Q Business application environment	Read	<a href="#">applicati on</a>		
			<a href="#">qapp</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">qapps:UseRlsAppOwner</a> <a href="#">qapps:AppIsPublished</a>	
<a href="#">GetQAppSession</a>	Grants permission to get Q App session in the Q Business application environment	Read	<a href="#">qapp-session*</a>	<a href="#">qapps:UseRlsAppOwner</a> <a href="#">qapps:AppIsPublished</a> <a href="#">qapps:UseRlsSessionModerator</a> <a href="#">qapps:SessionIsShared</a>	
<a href="#">GetQAppSessionMetadata</a>	Grants permission to get Q App session metadata in the Q Business application environment	Read	<a href="#">qapp-session*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportDocument</a>	Grants permission to import a document to Q App or Q App Session in the Q Business application environment	Write	<a href="#">qapp</a> <a href="#">qapp-session</a>	<a href="#">qapps:UseRlsAppOwner</a> <a href="#">qapps:AppIsPublished</a> <a href="#">qapps:UseRlsSessionModerator</a> <a href="#">qapps:SessionIsShared</a>	
<a href="#">ListCategories</a>	Grants permission to list categories in the Q Business application environment	List	<a href="#">application*</a>		
<a href="#">ListLibraryItems</a>	Grants permission to list library items in the Q Business application environment	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListQAppSessionData</a>	Grants permission to get Q App session data in the Q Business application environment	Read	<a href="#">qapp-session*</a>		
<a href="#">ListQApps</a>	Grants permission to list Q Apps in the Q Business application environment	List	<a href="#">application*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">qapp</a>		
			<a href="#">qapp-session</a>		
<a href="#">PredictProblemStatementFromConversation</a> [permission only]	Grants permission to predict problem statement from conversation log in the Q Business application environment	Write	<a href="#">application*</a>		
<a href="#">PredictQApp</a>	Grants permission to predict Q App from conversation log or problem statement in the Q Business application environment	Write	<a href="#">application*</a>		
<a href="#">PredictQAppFromProblemStatement</a> [permission only]	Grants permission to predict Q App metadata from problem statement in the Q Business application environment	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartQAppSession</a>	Grants permission to start Q App session in the Q Business application environment	Write	<a href="#">application</a>		
			<a href="#">qapp</a>		
				<a href="#">qapps:UseIsAppOwner</a>	
				<a href="#">qapps:AppIsPublished</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">StopQAppSession</a>	Grants permission to stop Q App session in the Q Business application environment	Write	<a href="#">application</a>		
			<a href="#">qapp-session</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">qapps:Use</a> <a href="#">rlsAppOwner</a>  <a href="#">qapps:App</a> <a href="#">IsPublished</a>  <a href="#">qapps:Use</a> <a href="#">rlsSessionModerator</a>  <a href="#">qapps:SessionIsShared</a>	
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">qapp</a>  <a href="#">qapp-session</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the tag with the given key from a resource	Tagging	<a href="#">qapp</a>  <a href="#">qapp-session</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateLibraryItem</a>	Grants permission to update a library item in the Q Business application environment	Write	<a href="#">application</a> <a href="#">qapp</a>	<a href="#">qapps:UseRolesAppOwner</a> <a href="#">qapps:AppIsPublished</a>	
<a href="#">UpdateLibraryItemMetadata</a>	Grants permission to update the metadata of a library item in the Q Business application environment	Write	<a href="#">qapp*</a>	<a href="#">qapps:AppIsPublished</a>	
<a href="#">UpdateQApp</a>	Grants permission to update Q App in the Q Business application environment	Write	<a href="#">application</a> <a href="#">qapp</a>	<a href="#">qapps:UseRolesAppOwner</a> <a href="#">qapps:AppIsPublished</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateQAppPermissions</a>	Grants permission to update Q App sharing permissions in the Q Business application environment	Write	<a href="#">application</a>		
			<a href="#">qapp</a>	<a href="#">qapps:Use</a> <a href="#">rlsAppOwner</a>	
				<a href="#">qapps:App</a> <a href="#">IsPublished</a>	
<a href="#">UpdateQAppSession</a>	Grants permission to update Q App session in the Q Business application environment	Write	<a href="#">qapp-session*</a>		
				<a href="#">qapps:Use</a> <a href="#">rlsAppOwner</a>	
				<a href="#">qapps:App</a> <a href="#">IsPublished</a>	
				<a href="#">qapps:Use</a> <a href="#">rlsSessionModerator</a>	
				<a href="#">qapps:SessionIsShared</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateQAppSessionMetadata</a>	Grants permission to update Q App session metadata in the Q Business application environment	Write	<a href="#">qapp-session*</a>		

## Resource types defined by Amazon Q Business Q Apps

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:qbusiness:\${Region}:\${Account}:application/\${ApplicationId}	
<a href="#">qapp</a>	arn:\${Partition}:qapps:\${Region}:\${Account}:application/\${ApplicationId}/qapp/\${AppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">qapp-session</a>	arn:\${Partition}:qapps:\${Region}:\${Account}:application/\${ApplicationId}/qapp/\${AppId}/session/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Q Business Q Apps

Amazon Q Business Q Apps defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">qapps:AppIsPublished</a>	Filters access by whether Q App is published	String
<a href="#">qapps:SessionIsShared</a>	Filters access by whether Q App Session is shared	String
<a href="#">qapps:UserIsAppOwner</a>	Filters access by whether requester is Q App owner	String
<a href="#">qapps:UserIsSessionModerator</a>	Filters access by whether requester is Q App Session moderator	String

## Actions, resources, and condition keys for Amazon Q Developer

Amazon Q Developer (service prefix: `qdeveloper`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Q Developer](#)
- [Resource types defined by Amazon Q Developer](#)
- [Condition keys for Amazon Q Developer](#)

## Actions defined by Amazon Q Developer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExportArtifact</a>	Grants permission to export artifacts from Amazon Q Developer	Write	<a href="#">codeTransformation</a>		
<a href="#">ImportArtifact</a>	Grants permission to import artifacts to Amazon Q Developer	Write	<a href="#">codeTransformation</a>		
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to list all tags associated with an Amazon Q Developer resource	List	<a href="#">codeTransformation</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartAgentSession</a>	Grants permission to start an agent session with Amazon Q Developer	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagResource</a> [permission only]	Grants permission to associate tags with an Amazon Q Developer resource	Tagging	<a href="#">codeTransformation</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TransformCode</a>	Grants permission to transform code with Amazon Q Developer Transform Agent	Write	<a href="#">codeTransformation</a>		
<a href="#">UntagResource</a> [permission only]	Grants permission to remove tags associated with an Amazon Q Developer resource	Tagging	<a href="#">codeTransformation</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon Q Developer

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">codeTransformation</a>	arn:\${Partition}:qdeveloper:\${Region}:\${Account}:codeTransformation/\${Id}entifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Q Developer

Amazon Q Developer defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the Amazon Q Developer resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Q in Connect

Amazon Q in Connect (service prefix: wisdom) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Q in Connect](#)
- [Resource types defined by Amazon Q in Connect](#)
- [Condition keys for Amazon Q in Connect](#)

## Actions defined by Amazon Q in Connect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateMessageTemplate</a>	Grants permission to activate a message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for an assistant	Permissions management	<a href="#">Assistant</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAIAGENT</a>	Grants permission to create an ai agent	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAIAGENTVersion</a>	Grants permission to create an ai agent version	Write	<a href="#">AIAGENT*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAIGuardrail</a>	Grants permission to create an ai guardrail	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAIGuardrailVersion</a>	Grants permission to create an ai guardrail version	Write	<a href="#">AIGuardrail*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAIPrompt</a>	Grants permission to create an ai prompt	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAIPromptVersion</a>	Grants permission to create an ai prompt version	Write	<a href="#">AIPrompt*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateAssistant</a>	Grants permission to create an assistant	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAssistantAssociation</a>	Grants permission to create an association between an assistant and another resource	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateContent</a>	Grants permission to create content	Write	<a href="#">KnowledgeBase*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateContentAssociation</a>	Grants permission to create a content association	Write	<a href="#">Content*</a> <a href="#">KnowledgeBase*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateKnowledgeBase</a>	Grants permission to create a knowledge base	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateMessageTemplate</a>	Grants permission to create a message template	Write	<a href="#">KnowledgeBase*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateMessageTemplateAttachment</a>	Grants permission to create an attachment to a message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		
<a href="#">CreateMessageTemplateVersion</a>	Grants permission to create a version of a message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateQuickResponse</a>	Grants permission to create quick response	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateSession</a>	Grants permission to create a session	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeactivateMessageTemplate</a>	Grants permission to deactivate a message template	Write	<a href="#">KnowledgeBase*</a>  <a href="#">MessageTemplate*</a>		
<a href="#">DeleteAIAgent</a>	Grants permission to delete an ai agent	Write	<a href="#">AIAgent*</a>		
<a href="#">DeleteAIAgentVersion</a>	Grants permission to delete an ai agent version	Write	<a href="#">AIAgent*</a>		
<a href="#">DeleteAIGuardrail</a>	Grants permission to delete an ai guardrail	Write	<a href="#">AIGuardrail*</a>		
<a href="#">DeleteAIGuardrailVersion</a>	Grants permission to delete an ai guardrail version	Write	<a href="#">AIGuardrail*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAIPrompt</a>	Grants permission to delete an ai prompt	Write	<a href="#">AIPrompt*</a>		
<a href="#">DeleteAIPromptVersion</a>	Grants permission to delete an ai prompt version	Write	<a href="#">AIPrompt*</a>		
<a href="#">DeleteAssistant</a>	Grants permission to delete an assistant	Write	<a href="#">Assistant*</a>		
<a href="#">DeleteAssistantAssociation</a>	Grants permission to delete an assistant association	Write	<a href="#">AssistantAssociation*</a>		
<a href="#">DeleteContent</a>	Grants permission to delete content	Write	<a href="#">Content*</a>		
			<a href="#">KnowledgeBase*</a>		
<a href="#">DeleteContentAssociation</a>	Grants permission to delete a content association	Write	<a href="#">Content*</a>		
			<a href="#">ContentAssociation*</a>		
			<a href="#">KnowledgeBase*</a>		
<a href="#">DeleteImportJob</a>	Grants permission to delete a import job of a knowledge base	Write	<a href="#">KnowledgeBase*</a>		
<a href="#">DeleteKnowledgeBase</a>	Grants permission to delete a knowledge base	Write	<a href="#">KnowledgeBase*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMessageTemplate</a>	Grants permission to delete a message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		
<a href="#">DeleteMessageTemplateAttachment</a>	Grants permission to delete an attachment from a message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		
<a href="#">DeleteQuickResponse</a>	Grants permission to delete quick response	Write	<a href="#">KnowledgeBase*</a> <a href="#">QuickResponse*</a>		
<a href="#">GetAIAgent</a>	Grants permission to retrieve information about an ai agent	Read	<a href="#">AIAgent*</a>		
<a href="#">GetAIGuardrail</a>	Grants permission to retrieve information about an ai guardrail	Read	<a href="#">AIGuardrail*</a>		
<a href="#">GetAIPrompt</a>	Grants permission to retrieve information about an ai prompt	Read	<a href="#">AIPrompt*</a>		
<a href="#">GetAssistant</a>	Grants permission to retrieve information about an assistant	Read	<a href="#">Assistant*</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAssistantAssociation</a>	Grants permission to retrieve information about an assistant association	Read	<a href="#">AssistantAssociation*</a>		
<a href="#">GetContent</a>	Grants permission to retrieve content, including a pre-signed URL to download the content	Read	<a href="#">Content*</a> <a href="#">KnowledgeBase*</a>		
<a href="#">GetContentAssociation</a>	Grants permission to retrieve information about a content association	Read	<a href="#">Content*</a> <a href="#">ContentAssociation*</a> <a href="#">KnowledgeBase*</a>		
<a href="#">GetContentSummary</a>	Grants permission to retrieve summary information about the content	Read	<a href="#">Content*</a> <a href="#">KnowledgeBase*</a>		
<a href="#">GetImportJob</a>	Grants permission to retrieve information about the import job	Read	<a href="#">KnowledgeBase*</a>		
<a href="#">GetKnowledgeBase</a>	Grants permission to retrieve information about the knowledge base	Read	<a href="#">KnowledgeBase*</a>		
<a href="#">GetMessageTemplate</a>	Grants permission to retrieve a message template	Read	<a href="#">KnowledgeBase*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">MessageTemplate*</a>		
				<a href="#">wisdom:MessageTemplate/RoutingProfileArn</a>	
<a href="#">GetNextMessage</a>	Grants permission to retrieve for next message in a session	Read	<a href="#">Session*</a>		
<a href="#">GetQuickResponse</a>	Grants permission to retrieve content	Read	<a href="#">KnowledgeBase*</a>		
			<a href="#">QuickResponse*</a>		
<a href="#">GetRecommendations</a>	Grants permission to retrieve recommendations for the specified session	Read	<a href="#">Session*</a>		
<a href="#">GetSession</a>	Grants permission to retrieve information for a specified session	Read	<a href="#">Session*</a>		
<a href="#">ListAIAgentVersions</a>	Grants permission to list information about ai agent versions	List	<a href="#">AIAgent*</a>		
<a href="#">ListAIAgents</a>	Grants permission to list information about ai agents	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAIGuardrailVersions</a>	Grants permission to list information about ai guardrail versions	List	<a href="#">AIGuardrail*</a>		
<a href="#">ListAIGuardrails</a>	Grants permission to list information about ai guardrails	List			
<a href="#">ListAIPromptVersions</a>	Grants permission to list information about ai prompt versions	List	<a href="#">AIPrompt*</a>		
<a href="#">ListAIPrompts</a>	Grants permission to list information about ai prompts	List			
<a href="#">ListAssistantAssociations</a>	Grants permission to list information about assistant associations	List			
<a href="#">ListAssistants</a>	Grants permission to list information about assistants	List			
<a href="#">ListContentAssociations</a>	Grants permission to list information about content associations	List	<a href="#">Content*</a> <a href="#">KnowledgeBase*</a>		
<a href="#">ListContents</a>	Grants permission to list the content with a knowledge base	List	<a href="#">KnowledgeBase*</a>		
<a href="#">ListImportJobs</a>	Grants permission to list information about knowledge bases	List	<a href="#">KnowledgeBase*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListKnowledgeBases</a>	Grants permission to list information about knowledge bases	List			
<a href="#">ListMessageTemplateVersions</a>	Grants permission to list message template versions for the specified message template	List	<a href="#">KnowledgeBase*</a>		
			<a href="#">MessageTemplate*</a>		
<a href="#">ListMessageTemplates</a>	Grants permission to list the message templates for a knowledge base	List	<a href="#">KnowledgeBase*</a>		
<a href="#">ListMessages</a>	Grants permission to list messages in a session	List	<a href="#">Session*</a>		
<a href="#">ListQuickResponses</a>	Grants permission to list the quick response with a knowledge base	List	<a href="#">KnowledgeBase*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for the specified resource	Read			
<a href="#">NotifyRecommendationsReceived</a>	Grants permission to remove the specified recommendations from the specified assistant's queue of newly available recommendations	Write	<a href="#">Session*</a>		
<a href="#">PutFeedback</a>	Grants permission to submit feedback	Write	<a href="#">Assistant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">QueryAssistant</a>	Grants permission to perform a manual search against the specified assistant	Read	<a href="#">Assistant</a> *		
<a href="#">RemoveAssistantAgent</a>	Grants permission to remove an ai agent from an assistant	Write	<a href="#">Assistant</a> *		
<a href="#">RemoveKnowledgeBaseTemplateUri</a>	Grants permission to remove a URI template from a knowledge base	Write	<a href="#">KnowledgeBase</a> *		
<a href="#">RenderMessageTemplate</a>	Grants permission to render a message template	Read	<a href="#">KnowledgeBase</a> *		wisdom:GetMessageTemplate
			<a href="#">MessageTemplate</a> *		
				<a href="#">wisdom:MessageTemplate/RoutingProfileArn</a>	
<a href="#">Retrieve</a>	Grants permission to retrieve knowledge content from specified assistant associations	Read	<a href="#">Assistant</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchContent</a>	Grants permission to search for content referencing a specified knowledge base. Can be used to get a specific content resource by its name	Read	<a href="#">KnowledgeBase*</a>		
<a href="#">SearchMessageTemplates</a>	Grants permission to search for message templates referencing a specified knowledge base	Read	<a href="#">KnowledgeBase*</a>	<a href="#">wisdom:SearchFilter/ RoutingProfileArn</a> <a href="#">wisdom:SearchFilter/Qualifier</a>	
<a href="#">SearchQuickResponses</a>	Grants permission to search for quick response referencing a specified knowledge base	Read	<a href="#">KnowledgeBase*</a>	<a href="#">wisdom:SearchFilter/ RoutingProfileArn</a>	wisdom:GetQuickResponse

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchSessions</a>	Grants permission to search for sessions referencing a specified assistant. Can be used to get a specific session resource by its name	Read			
<a href="#">SendMessage</a>	Grants permission to send a message	Write	<a href="#">Session*</a>		
<a href="#">StartContentUpload</a>	Grants permission to get a URL to upload content to a knowledge base	Write	<a href="#">KnowledgeBase*</a>		
<a href="#">StartImportJob</a>	Grants permission to create multiple quick responses	Write	<a href="#">KnowledgeBase*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to add the specified tags to the specified resource	Tagging	<a href="#">Assistant</a> <a href="#">AssistantAssociation</a> <a href="#">Content</a> <a href="#">ContentAssociation</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Knowledge Base</a>		
			<a href="#">MessageTemplate</a>		
			<a href="#">QuickResponse</a>		
			<a href="#">Session</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified tags from the specified resource	Tagging	<a href="#">Assistant</a> <a href="#">AssistantAssociation</a> <a href="#">Content</a> <a href="#">ContentAssociation</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">KnowledgeBase</a>		
			<a href="#">MessageTemplate</a>		
			<a href="#">QuickResponse</a>		
			<a href="#">Session</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAIAgent</a>	Grants permission to update information about an ai agent	Write	<a href="#">AIAgent*</a>		
<a href="#">UpdateAIGuardrail</a>	Grants permission to update information about an ai guardrail	Write	<a href="#">AIGuardrail*</a>		
<a href="#">UpdateAIPrompt</a>	Grants permission to update information about an ai prompt	Write	<a href="#">AIPrompt*</a>		
<a href="#">UpdateAssistantAIAgent</a>	Grants permission to update assistant information about an ai agent	Write	<a href="#">Assistant*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateContent</a>	Grants permission to update information about the content	Write	<a href="#">Content*</a> <a href="#">KnowledgeBase*</a>		
<a href="#">UpdateKnowledgeBaseTemplateUri</a>	Grants permission to update the template URI of a knowledge base	Write	<a href="#">KnowledgeBase*</a>		
<a href="#">UpdateMessageTemplate</a>	Grants permission to update content of the message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		
<a href="#">UpdateMessageTemplateMetadata</a>	Grants permission to update metadata of the message template	Write	<a href="#">KnowledgeBase*</a> <a href="#">MessageTemplate*</a>		
<a href="#">UpdateQuickResponse</a>	Grants permission to update information or content of the quick response	Write	<a href="#">KnowledgeBase*</a> <a href="#">QuickResponse*</a>		
<a href="#">UpdateSession</a>	Grants permission to update a session	Write	<a href="#">Session*</a>		
<a href="#">UpdateSessionData</a>	Grants permission to update data stored in a session	Write	<a href="#">Session*</a>		

## Resource types defined by Amazon Q in Connect

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AI Agent</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:ai-agent/\${AssistantId}/\${AI AgentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">AIPrompt</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:ai-prompt/\${AssistantId}/\${AIPromptId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">AIGuardrail</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:ai-guardrail/\${AssistantId}/\${AIGuardrailId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Assistant</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:assistant/\${AssistantId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Assistant Association</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:association/\${AssistantId}/\${AssistantAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Content</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:content/\${KnowledgeBaseId}/\${ContentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Content Association</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:content-association/\${KnowledgeBaseId}/\${ContentId}/\${ContentAssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">Knowledge Base</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:knowledge-base/\${KnowledgeBaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">MessageTemplate</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:message-template/\${KnowledgeBaseId}/\${MessageTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">wisdom:MessageTemplate/RoutingProfileArn</a>
<a href="#">Session</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:session/\${AssistantId}/\${SessionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">QuickResponse</a>	arn:\${Partition}:wisdom:\${Region}:\${Account}:quick-response/\${KnowledgeBaseId}/\${QuickResponseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Q in Connect

Amazon Q in Connect defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">wisdom:MessageTemplate/RouteArn</a>	Filters access by the connect routing profile arns associated with the resource	ArrayOfARN
<a href="#">wisdom:SearchFilter/Qualifier</a>	Filters access by the qualifiers that are passed in the request	ArrayOfString
<a href="#">wisdom:SearchFilter/RouteArn</a>	Filters access by the connect routing profile arn that is passed in the request	ARN

## Actions, resources, and condition keys for Amazon QLDB

Amazon QLDB (service prefix: `qldb`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon QLDB](#)
- [Resource types defined by Amazon QLDB](#)

- [Condition keys for Amazon QLDB](#)

## Actions defined by Amazon QLDB

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelJournalKinesisStream</a>	Grants permission to cancel a journal kinesis stream	Write	<a href="#">stream*</a>		
<a href="#">CreateLedger</a>	Grants permission to create a ledger	Write	<a href="#">ledger*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteLedger</a>	Grants permission to delete a ledger	Write	<a href="#">ledger*</a>		
<a href="#">DescribeJournalKinesisStream</a>	Grants permission to describe information about a journal kinesis stream	Read	<a href="#">stream*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeJournalS3Export</a>	Grants permission to describe information about a journal export job	Read	<a href="#">ledger*</a>		
<a href="#">DescribeLedger</a>	Grants permission to describe a ledger	Read	<a href="#">ledger*</a>		
<a href="#">ExecuteStatement</a> [permission only]	Grants permission to send commands to a ledger via the console	Write	<a href="#">ledger*</a>		
<a href="#">ExportJournalToS3</a>	Grants permission to export journal contents to an Amazon S3 bucket	Write	<a href="#">ledger*</a>		
<a href="#">GetBlock</a>	Grants permission to retrieve a block from a ledger for a given BlockAddress	Read	<a href="#">ledger*</a>		
<a href="#">GetDigest</a>	Grants permission to retrieve a digest from a ledger for a given BlockAddress	Read	<a href="#">ledger*</a>		
<a href="#">GetRevision</a>	Grants permission to retrieve a revision for a given document ID and a given BlockAddress	Read	<a href="#">ledger*</a>		
<a href="#">InsertSampleData</a> [permission only]	Grants permission to insert sample application data via the console	Write	<a href="#">ledger*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListJournalKinesisStreamsForLedger</a>	Grants permission to list journal kinesis streams for a specified ledger	List	<a href="#">stream*</a>		
<a href="#">ListJournalS3Exports</a>	Grants permission to list journal export jobs for all ledgers	List			
<a href="#">ListJournalS3ExportsForLedger</a>	Grants permission to list journal export jobs for a specified ledger	List	<a href="#">ledger*</a>		
<a href="#">ListLedgers</a>	Grants permission to list existing ledgers	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">catalog</a>		
			<a href="#">ledger</a>		
			<a href="#">stream</a>		
			<a href="#">table</a>		
<a href="#">PartiQLCreateIndex</a>	Grants permission to create an index on a table	Write	<a href="#">table*</a>		
<a href="#">PartiQLCreateTable</a>	Grants permission to create a table	Write	<a href="#">table*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PartiQLDelete</a>	Grants permission to delete documents from a table	Write	<a href="#">table*</a>		
<a href="#">PartiQLDropIndex</a>	Grants permission to drop an index from a table	Write	<a href="#">table*</a>	<a href="#">qldb:Purge</a>	
<a href="#">PartiQLDropTable</a>	Grants permission to drop a table	Write	<a href="#">table*</a>	<a href="#">qldb:Purge</a>	
<a href="#">PartiQLHistoryFunction</a>	Grants permission to use the history function on a table	Read	<a href="#">table*</a>		
<a href="#">PartiQLInsert</a>	Grants permission to insert documents into a table	Write	<a href="#">table*</a>		
<a href="#">PartiQLRedact</a>	Grants permission to redact historic revisions	Write	<a href="#">table*</a>		
<a href="#">PartiQLSelect</a>	Grants permission to select documents from a table	Read	<a href="#">catalog</a> <a href="#">table</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PartiQLUndropTable</a>	Grants permission to undrop a table	Write	<a href="#">table*</a>		
<a href="#">PartiQLUpdate</a>	Grants permission to update existing documents in a table	Write	<a href="#">table*</a>		
<a href="#">SendCommand</a>	Grants permission to send commands to a ledger	Write	<a href="#">ledger*</a>		
<a href="#">ShowCatalog</a> [permission only]	Grants permission to view a ledger's catalog via the console	Write	<a href="#">ledger*</a>		
<a href="#">StreamJournalToKinesis</a>	Grants permission to stream journal contents to a Kinesis Data Stream	Write	<a href="#">stream*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">catalog</a> <a href="#">ledger</a> <a href="#">stream</a> <a href="#">table</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">catalog</a> <a href="#">ledger</a> <a href="#">stream</a> <a href="#">table</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateLedger</a>	Grants permission to update properties on a ledger	Write	<a href="#">ledger*</a>		
<a href="#">UpdateLedgerPermissionsMode</a>	Grants permission to update the permissions mode on a ledger	Write	<a href="#">ledger*</a>		

## Resource types defined by Amazon QLDB

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">ledger</a>	arn:\${Partition}:qldb:\${Region}:\${Account}:ledger/\${LedgerName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">stream</a>	arn:\${Partition}:qldb:\${Region}:\${Account}:stream/\${LedgerName}/\${StreamId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">table</a>	arn:\${Partition}:qldb:\${Region}:\${Account}:ledger/\${LedgerName}/table/\${TableId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">catalog</a>	arn:\${Partition}:qldb:\${Region}:\${Account}:ledger/\${LedgerName}/information_schema/user_tables	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon QLDB

Amazon QLDB defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">glodb:Purge</a>	Filters access by the value of purge that is specified in a PartiQL DROP statement	String

## Actions, resources, and condition keys for Amazon QuickSight

Amazon QuickSight (service prefix: `quicksight`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon QuickSight](#)
- [Resource types defined by Amazon QuickSight](#)
- [Condition keys for Amazon QuickSight](#)

## Actions defined by Amazon QuickSight

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AccountConfigurations</a> [permission only]	Grants permission to enable setting default access to AWS resources	Write			
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure log delivery for QuickSuite instance	Permissions management			
<a href="#">BatchCreateTopicReviewedAnswer</a>	Grants permission to create reviewed answers for a topic	Write	<a href="#">topic*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">BatchDeleteTopicReviewedAnswer</a>	Grants permission to delete reviewed answers for a topic	Write	<a href="#">topic*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">BatchGetPreferences</a>	Grants permission to get user preferences	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">BatchUpdatePreferences</a> [permission only]	Grants permission to update user preferences	Write			
<a href="#">CancelIngestion</a>	Grants permission to cancel a SPICE ingestions on a dataset	Write	<a href="#">ingestion</a> * -		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateAccountCustomization</a>	Grants permission to create an account customization for QuickSight account or namespace	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateAccountSubscription</a>	Grants permission to subscribe to QuickSight	Write		<a href="#">quicksight:Edition</a>  <a href="#">quicksight:DirectoryType</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateActionConnector</a>	Grants permission to create an action connector	Write	<a href="#">actionconnector*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAdmin</a> [permission only]	Grants permission to provision Amazon QuickSight administrators, authors, and readers	Write	<a href="#">user*</a>		
<a href="#">CreateAnalysis</a>	Grants permission to create an analysis from a template	Write	<a href="#">analysis*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBrand</a>	Grants permission to create an Amazon QuickSight brand	Write	<a href="#">brand*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCustomPermissions</a>	Grants permission to create a QuickSight custom permissions resource	Write	<a href="#">custompermissions*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDashboard</a>	Grants permission to create a QuickSight Dashboard	Write	<a href="#">dashboard*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataSet</a>	Grants permission to create a dataset	Write	<a href="#">datasource*</a>		quicksight:PassDataSource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataSource</a>	Grants permission to create a data source	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">CreateEmailCustomizationTemplate</a> [permission only]	Grants permission to create a QuickSight email customization template	Write	<a href="#">emailCustomizationTemplate*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateExtensionAccess</a> [permission only]	Grants permission to create an extension access	Write	<a href="#">extensionaccess*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFolder</a>	Grants permission to create a QuickSight folder	Write	<a href="#">folder*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateFolderMemberShip</a>	Grants permission to add a QuickSight Dashboard , Analysis or Dataset to a QuickSight Folder	Write	<a href="#">folder*</a>		
			<a href="#">analysis</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
<a href="#">CreateGroup</a>	Grants permission to create a QuickSight group	Write	<a href="#">group*</a>		
<a href="#">CreateGroupMemberships</a>	Grants permission to add a QuickSight user to a QuickSight group	Write	<a href="#">group*</a>	<a href="#">quicksight:UserName</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIAMPolicyAssignment</a>	Grants permission to create an assignment with one specified IAM Policy ARN that will be assigned to specified groups or users of QuickSight	Write	<a href="#">assignment*</a>		
<a href="#">CreateIngestion</a>	Grants permission to start a SPICE ingestion on a dataset	Write	<a href="#">ingestion*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateNamespace</a>	Grants permission to create an QuickSight namespace	Write	<a href="#">namespace*</a>		ds:CreateIdentityPoolDirectory
<a href="#">CreateReader</a> [permission only]	Grants permission to provision Amazon QuickSight readers	Write	<a href="#">user*</a>		
<a href="#">CreateRefreshSchedule</a>	Grants permission to create a refresh schedule for a dataset	Write	<a href="#">refreshschedule*</a>		
<a href="#">CreateRoleMembership</a>	Grants permission to add a group member to a role	Write		<a href="#">quicksight:Group</a>	
<a href="#">CreateTemplate</a>	Grants permission to create a template	Write	<a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTemplateAlias</a>	Grants permission to create a template alias	Write	<a href="#">template*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTheme</a>	Grants permission to create a theme	Write	<a href="#">theme*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateThemeAlias</a>	Grants permission to create an alias for a theme version	Write	<a href="#">theme*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTopic</a>	Grants permission to create a topic	Write	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	quicksight:PassDataSet
<a href="#">CreateTopicRefreshSchedule</a>	Grants permission to create a refresh schedule for a topic	Write	<a href="#">topic*</a>		
<a href="#">CreateUser</a> [permission only]	Grants permission to provision Amazon QuickSight authors and readers	Write	<a href="#">user*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVPCConnection</a>	Grants permission to create a vpc connection	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">DeleteAccountCustomPermission</a>	Grants permission to remove the custom permission associated with an account	Write			
<a href="#">DeleteAccountCustomization</a>	Grants permission to delete an account customization for QuickSight account or namespace	Write	<a href="#">customization*</a>		
<a href="#">DeleteAccountSubscription</a>	Grants permission to delete a QuickSight account	Write	<a href="#">account*</a>		
<a href="#">DeleteActionConnector</a>	Grants permission to delete an action connector	Write	<a href="#">actionconnector*</a>		
<a href="#">DeleteAnalysis</a>	Grants permission to delete an analysis	Write	<a href="#">analysis*</a>		
<a href="#">DeleteBrand</a>	Grants permission to delete an Amazon QuickSight brand	Write	<a href="#">brand*</a>		
<a href="#">DeleteBrandAssignment</a>	Grants permission to delete a brand assignment	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCustomPermissions</a>	Grants permission to delete a QuickSight custom permissions resource	Write			
<a href="#">DeleteDashboard</a>	Grants permission to delete a QuickSight Dashboard	Write	<a href="#">dashboard*</a>		
<a href="#">DeleteDataSet</a>	Grants permission to delete a dataset	Write	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDataSetRefreshProperties</a>	Grants permission to delete dataset refresh properties for a dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteDataSource</a>	Grants permission to delete a data source	Write	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDefaultQBussinessApplication</a>	Grants permission to delete linked QBusiness application for QuickSight account	Write			
<a href="#">DeleteEmailCustomizationTemplate</a> [permission only]	Grants permission to delete a QuickSight email customization template	Write	<a href="#">emailCustomizationTemplate*</a>		
<a href="#">DeleteExtensionAccess</a> [permission only]	Grants permission to delete an extension access	Write	<a href="#">extensionaccess*</a>		
<a href="#">DeleteFolder</a>	Grants permission to delete a QuickSight Folder	Write	<a href="#">folder*</a>		
<a href="#">DeleteFolderMembership</a>	Grants permission to remove a QuickSight Dashboard, Analysis or Dataset from a QuickSight Folder	Write	<a href="#">folder*</a> <a href="#">analysis</a> <a href="#">dashboard</a> <a href="#">dataset</a>		
<a href="#">DeleteGroup</a>	Grants permission to remove a user group from QuickSight	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteGroupMemberships</a>	Grants permission to remove a user from a group so that he/she is no longer a member of the group	Write	<a href="#">group*</a>	<a href="#">quicksight:Username</a>	
<a href="#">DeleteIAMPolicyAssignment</a>	Grants permission to update an existing assignment	Write	<a href="#">assignment*</a>		
<a href="#">DeleteIdentityPropagationConfig</a>	Grants permission to remove AWS services for trusted identity propagation in QuickSight	Write			
<a href="#">DeleteNamespace</a>	Grants permission to delete a QuickSight namespace	Write	<a href="#">namespace*</a>		ds>Delete Directory
<a href="#">DeleteRefreshSchedule</a>	Grants permission to delete a refresh schedule for a dataset	Write	<a href="#">refreshschedule*</a>		
<a href="#">DeleteRoleCustomPermission</a>	Grants permission to remove the custom permission associated with a role	Write			
<a href="#">DeleteRoleMembership</a>	Grants permission to remove a group member from a role	Write		<a href="#">quicksight:Group</a>	
<a href="#">DeleteTemplate</a>	Grants permission to delete a template	Write	<a href="#">template*</a>		
<a href="#">DeleteTemplateAlias</a>	Grants permission to delete a template alias	Write	<a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTheme</a>	Grants permission to delete a theme	Write	<a href="#">theme*</a>		
<a href="#">DeleteThemeAlias</a>	Grants permission to delete the alias of a theme	Write	<a href="#">theme*</a>		
<a href="#">DeleteTopic</a>	Grants permission to delete a topic	Write	<a href="#">topic*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteTopicRefreshSchedule</a>	Grants permission to delete a refresh schedule for a topic	Write	<a href="#">topic*</a>		
<a href="#">DeleteUser</a>	Grants permission to delete a QuickSight user, given the user name	Write	<a href="#">user*</a>		
<a href="#">DeleteUserByPrincipalId</a>	Grants permission to delete a user identified by its principal ID	Write	<a href="#">user*</a>		
<a href="#">DeleteUserCustomPermission</a>	Grants permission to remove the custom permission associated with a user	Write	<a href="#">user*</a>		
<a href="#">DeleteVPCConnection</a>	Grants permission to delete a vpc connection	Write	<a href="#">vpconnection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAccountCustomPermission</a>	Grants permission to describe the custom permission associated with an account	Read		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeAccountCustomization</a>	Grants permission to describe an account customization for QuickSight account or namespace	Read	<a href="#">customization*</a>		
<a href="#">DescribeAccountSettings</a>	Grants permission to describe the administrative account settings for QuickSight account	Read			
<a href="#">DescribeAccountSubscription</a>	Grants permission to describe a QuickSight account	Read	<a href="#">account*</a>		
<a href="#">DescribeActionConnector</a>	Grants permission to describe an action connector	Read	<a href="#">actionconnector*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeActionConnectorPermissions</a>	Grants permission to describe permissions for an action connector	Read	<a href="#">actionconnector*</a>		
<a href="#">DescribeAgent</a> [permission only]	Grants permission to describe an agent	Read	<a href="#">agent*</a>		
<a href="#">DescribeAgentPermissions</a> [permission only]	Grants permission to describe agent's permissions	Read	<a href="#">agent*</a>		
<a href="#">DescribeAnalysis</a>	Grants permission to describe an analysis	Read	<a href="#">analysis*</a>		
<a href="#">DescribeAnalysisPermissions</a>	Grants permission to describe permissions for an analysis	Read	<a href="#">analysis*</a>		
<a href="#">DescribeAssetBundleExportJob</a>	Grants permission to describe an asset bundle export job	Read	<a href="#">assetBundleExportJob*</a>		
<a href="#">DescribeAssetBundleImportJob</a>	Grants permission to describe an asset bundle import job	Read	<a href="#">assetBundleImportJob*</a>		
<a href="#">DescribeBrand</a>	Grants permission to describe a brand	Read	<a href="#">brand*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeBrandAssignment</a>	Grants permission to describe a brand assignment	Read			
<a href="#">DescribeBrandPublishedVersion</a>	Grants permission to describes the published version of the brand	Read	<a href="#">brand*</a>		
<a href="#">DescribeChatConfiguration</a> [permission only]	Grants permission to describe chat configuration	Read			
<a href="#">DescribeCustomPermissions</a>	Grants permission to describe a custom permissions resource in a QuickSight account	Read	<a href="#">custompermissions*</a>		
<a href="#">DescribeDashboard</a>	Grants permission to describe a QuickSight Dashboard	Read	<a href="#">dashboard*</a>		
<a href="#">DescribeDashboardPermissions</a>	Grants permission to describe permissions for a QuickSight Dashboard	Read	<a href="#">dashboard*</a>		
<a href="#">DescribeDashboardSnapshotJob</a>	Grants permission to describe a dashboard snapshot job	Read	<a href="#">dashboardSnapshotJob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDashboardSnapshotJobResult</a>	Grants permission to describe result of a dashboard snapshot job	Read	<a href="#">dashboardSnapshotJob*</a>		
<a href="#">DescribeDashboardsQAConfiguration</a>	Grants permission to describe dashboards qa configuration	Read			
<a href="#">DescribeDataSet</a>	Grants permission to describe a dataset	Read	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeDataSetPermissions</a>	Grants permission to describe the resource policy of a dataset	Permissions management	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeDataSetRefreshProperties</a>	Grants permission to describe refresh properties for a dataset	Read	<a href="#">dataset*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDataSource</a>	Grants permission to describe a data source	Read	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeDataSourcePermissions</a>	Grants permission to describe the resource policy of a data source	Permissions management	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeDefaultQBusinessApplication</a>	Grants permission to describe linked QBusiness application Id for QuickSight account	Read			
<a href="#">DescribeEmailCustomizationTemplate</a> [permission only]	Grants permission to describe a QuickSight email customization template	Read	<a href="#">emailCustomizationTemplate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeExtensionAccess</a> [permission only]	Grants permission to describe an extension access	Read	<a href="#">extension access*</a>		
<a href="#">DescribeFolder</a>	Grants permission to describe a QuickSight Folder	Read	<a href="#">folder*</a>		
<a href="#">DescribeFolderPermissions</a>	Grants permission to describe permissions for a QuickSight Folder	Read	<a href="#">folder*</a>		
<a href="#">DescribeFolderResolvedPermissions</a>	Grants permission to describe resolved permissions for a QuickSight Folder	Read	<a href="#">folder*</a>		
<a href="#">DescribeGroup</a>	Grants permission to describe a QuickSight group	Read	<a href="#">group*</a>		
<a href="#">DescribeGroupMembership</a>	Grants permission to describe a QuickSight group member	Read	<a href="#">group*</a>	<a href="#">quicksight:UserName</a>	
<a href="#">DescribeAssignment</a>	Grants permission to describe an existing assignment	Read	<a href="#">assignment*</a>		
<a href="#">DescribeIngestion</a>	Grants permission to describe a SPICE ingestion on a dataset	Read	<a href="#">ingestion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeIPRestriction</a>	Grants permission to describe the IP restrictions for QuickSight account	Read		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeKeyRegistration</a>	Grants permission to describe QuickSight key registration	Read			
<a href="#">DescribeNamespace</a>	Grants permission to describe a QuickSight namespace	Read	<a href="#">namespace*</a>		
<a href="#">DescribePersonalizationConfiguration</a>	Grants permission to describe a personalization configuration	Read			
<a href="#">DescribeQuickIndexCapacity</a> [permission only]	Grants permission to describe index capacity	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeQuickSightQSearchConfiguration</a>	Grants permission to describe QuickSight Q Search configuration	Read			
<a href="#">DescribeRefreshSchedule</a>	Grants permission to describe a refresh schedule for a dataset	Read	<a href="#">refreshschedule*</a>		
<a href="#">DescribeRoleCustomPermission</a>	Grants permission to describe the custom permission associated with a role	Read			
<a href="#">DescribeSelfUpgradeConfiguration</a>	Grants permission to describe the administrative self upgrade configuration associated with an account	Read			
<a href="#">DescribeTemplate</a>	Grants permission to describe a template	Read	<a href="#">template*</a>		
<a href="#">DescribeTemplateAlias</a>	Grants permission to describe a template alias	Read	<a href="#">template*</a>		
<a href="#">DescribeTemplatePermissions</a>	Grants permission to describe permissions for a template	Read	<a href="#">template*</a>		
<a href="#">DescribeTheme</a>	Grants permission to describe a theme	Read	<a href="#">theme*</a>		
<a href="#">DescribeThemeAlias</a>	Grants permission to describe a theme alias	Read	<a href="#">theme*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeThemePermissions</a>	Grants permission to describe permissions for a theme	Read	<a href="#">theme*</a>		
<a href="#">DescribeTopic</a>	Grants permission to describe a topic	Read	<a href="#">topic*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">DescribeTopicPermissions</a>	Grants permission to describe the resource policy of a topic	Permissions management	<a href="#">topic*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">DescribeTopicRefresh</a>	Grants permission to describe the refresh status of a topic	Read	<a href="#">topic*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTopicRefreshSchedule</a>	Grants permission to describe a refresh schedule for a topic	Read	<a href="#">topic*</a>		
<a href="#">DescribeUser</a>	Grants permission to describe a QuickSight user given the user name	Read	<a href="#">user*</a>		
<a href="#">DescribeVPCConnection</a>	Grants permission to describe a vpc connection	Read	<a href="#">vpconnection*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GenerateEmbedUrlForAnonymousUser</a>	Grants permission to generate a URL used to embed a QuickSight Dashboard or Q Topic for a user not registered with QuickSight	Write	<a href="#">namespace*</a>		
			<a href="#">dashboard</a>		
			<a href="#">theme</a>		
			<a href="#">topic</a>		
				<a href="#">quicksight:AllowedEmbeddingDomains</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GenerateEmbeddedUserRegister</a>	Grants permission to generate a URL used to embed a QuickSight Dashboard for a user registered with QuickSight	Write	<a href="#">user*</a>	<a href="#">quicksight:AllowedEmbeddingDomains</a>	
<a href="#">GenerateEmbeddedUserWithIdentity</a>	Grants permission to generate a URL used to embed a QuickSight Experience for a user registered with QuickSight using Identity-enhanced role session	Write		<a href="#">quicksight:AllowedEmbeddingDomains</a>	
<a href="#">GetAnonymousUserEmbedUrl</a> [permission only]	Grants permission to get a URL used to embed a QuickSight Dashboard for a user not registered with QuickSight	Read			
<a href="#">GetAuthCode</a> [permission only]	Grants permission to get an auth code representing a QuickSight user	Read	<a href="#">user*</a>		
<a href="#">GetCustomPermissionsSummary</a> [permission only]	Grants permission to get information about the custom permissions in an account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDashboardEmbedUrl</a>	Grants permission to get a URL used to embed a QuickSight Dashboard	Read	<a href="#">dashboard*</a>		
<a href="#">GetFlowMetadata</a>	Grants permission to get metadata for a flow	Read	<a href="#">flow*</a>		
<a href="#">GetFlowPermissions</a>	Grants permission to get permissions for a flow	Read	<a href="#">flow*</a>		
<a href="#">GetGroupMapping</a> [permission only]	Grants permission to use Amazon QuickSight, in Enterprise edition, to identify and display the Microsoft Active Directory (Microsoft Active Directory) directory groups that are mapped to roles in Amazon QuickSight	Read			
<a href="#">GetIdentityContext</a>	Grants permission to get identity context for a user	Read	<a href="#">user*</a>		
<a href="#">GetSessionEmbedUrl</a>	Grants permission to get a URL to embed QuickSight console experience	Read			
<a href="#">ListActionConnectors</a>	Grants permission to list action connectors	List			
<a href="#">ListAgents</a> [permission only]	Grants permission to list agents	List	<a href="#">agent*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAnalyses</a>	Grants permission to list all analyses in an account	List	<a href="#">analysis*</a>		
<a href="#">ListAssetBundleExportJobs</a>	Grants permission to list all asset bundle export jobs	List	<a href="#">assetBundleExportJob*</a>		
<a href="#">ListAssetBundleImportJobs</a>	Grants permission to list all asset bundle import jobs	List	<a href="#">assetBundleImportJob*</a>		
<a href="#">ListBrands</a>	Grants permission to lists all brands in an Amazon QuickSight account	List			
<a href="#">ListCustomPermissions</a>	Grants permission to list custom permissions resources in QuickSight account	List			
<a href="#">ListCustomerManagedKeys</a> [permission only]	Grants permission to list all registered customer managed keys	List			
<a href="#">ListDashboardVersions</a>	Grants permission to list all versions of a QuickSight Dashboard	List	<a href="#">dashboard*</a>		
<a href="#">ListDashboards</a>	Grants permission to list all Dashboards in a QuickSight Account	List	<a href="#">dashboard*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDataSets</a>	Grants permission to list all datasets	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListDataSources</a>	Grants permission to list all data sources	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListExtensionAccesses</a> [permission only]	Grants permission to list extension accesses	List			
<a href="#">ListFlows</a>	Grants permission to list all flows in an Amazon QuickSight account	List			
<a href="#">ListFolderMembers</a>	Grants permission to list all members in a folder	Read	<a href="#">folder*</a>		
<a href="#">ListFolders</a>	Grants permission to list all Folders in a QuickSight Account	List	<a href="#">folder*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFoldersForResource</a>	Grants permission to list all Folders in which a QuickSight resource is a member	List	<a href="#">analysis</a> <a href="#">dashboard</a> <a href="#">dataset</a> <a href="#">datasource</a> <a href="#">topic</a>		
<a href="#">ListGroupMemberships</a>	Grants permission to list member users in a group	List	<a href="#">group*</a>		
<a href="#">ListGroups</a>	Grants permission to list all user groups in QuickSight	List	<a href="#">group*</a>		
<a href="#">ListIAMPolicyAssignments</a>	Grants permission to list all assignments in the current Amazon QuickSight account	List	<a href="#">assignment*</a>		
<a href="#">ListIAMPolicyAssignmentsForUser</a>	Grants permission to list all assignments assigned to a user and the groups it belongs	List	<a href="#">assignment*</a>		
<a href="#">ListIdentityPropagationConfigs</a>	Grants permission to list AWS services enabled for trusted identity propagation in QuickSight	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIngestions</a>	Grants permission to list all SPICE ingestions on a dataset	List		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">ListKMSKeysForUser</a> [permission only]	Grants permission to list a user's KMS keys	List			
<a href="#">ListNamespaces</a>	Grants permission to lists all namespaces in a QuickSight account	List			
<a href="#">ListRefreshSchedules</a>	Grants permission to list all refresh schedules on a dataset	List			
<a href="#">ListRoleMemberships</a>	Grants permission to list the members of a role	List			
<a href="#">ListSelfUpgradeRequests</a>	Grants permission to list all of the pending self upgrade requests associated with an account	List	<a href="#">user*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags of a QuickSight resource	Read	<a href="#">actionconnector</a>  <a href="#">analysis</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">brand</a>		
			<a href="#">customization</a>		
			<a href="#">custompermissions</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
			<a href="#">datasource</a>		
			<a href="#">emailCustomizationTemplate</a>		
			<a href="#">flow</a>		
			<a href="#">folder</a>		
			<a href="#">template</a>		
			<a href="#">theme</a>		
			<a href="#">topic</a>		
			<a href="#">vpconnection</a>		
<a href="#">ListTemplateAliases</a>	Grants permission to list all aliases for a template	List	<a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTemplateVersions</a>	Grants permission to list all versions of a template	List	<a href="#">template*</a>		
<a href="#">ListTemplates</a>	Grants permission to list all templates in a QuickSight account	List	<a href="#">template*</a>		
<a href="#">ListThemeAliases</a>	Grants permission to list all aliases of a theme	List	<a href="#">theme*</a>		
<a href="#">ListThemeVersions</a>	Grants permission to list all versions of a theme	List	<a href="#">theme*</a>		
<a href="#">ListThemes</a>	Grants permission to list all themes in an account	List	<a href="#">theme*</a>		
<a href="#">ListTopicRefreshSchedules</a>	Grants permission to list all refresh schedules on a topic	List			
<a href="#">ListTopicReviewedAnswers</a>	Grants permission to list all reviewed answers for topic	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTopics</a>	Grants permission to list all topics	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListUserGroups</a>	Grants permission to list groups that a given user is a member of	List	<a href="#">user*</a>		
<a href="#">ListUsers</a>	Grants permission to list all of the QuickSight users belonging to this account	List	<a href="#">user*</a>		
<a href="#">ListVPConnections</a>	Grants permission to list all vpc connections	List		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PassDataSet</a> [permission only]	Grants permission to use a dataset for a template	Read	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PassDataSource</a> [permission only]	Grants permission to use a data source for a data set	Read	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">PredictQAResults</a>	Grants permission to predict QA results	Read	<a href="#">dashboard</a> <a href="#">topic</a>		
<a href="#">PutDatasetRefreshProperties</a>	Grants permission to put dataset refresh properties for a dataset	Write	<a href="#">dataset*</a>		
<a href="#">QuickSuiteUsageMetrics</a> [permission only]	Grants permission to get QuickSuite usage metrics	Read			
<a href="#">RegisterCustomerManagedKey</a> [permission only]	Grants permission to register a customer managed key	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterUser</a>	Grants permission to create a QuickSight user, whose identity is associated with the IAM identity/role specified in the request	Write	<a href="#">user*</a>	<a href="#">quicksight:iamArn</a> <a href="#">quicksight:SessionName</a>	
<a href="#">RemoveCustomerManagedKey</a> [permission only]	Grants permission to remove a customer managed key	Write			
<a href="#">RestoreAnalysis</a>	Grants permission to restore a deleted analysis	Write	<a href="#">analysis*</a>		
<a href="#">ScopeDownPolicy</a> [permission only]	Grants permission to manage scoping policies for permissions to AWS resources	Write			
<a href="#">SearchActionConnectors</a>	Grants permission to search action connectors	List	<a href="#">actionconnector*</a>		
<a href="#">SearchAgents</a> [permission only]	Grants permission to search agents	List	<a href="#">agent*</a>		
<a href="#">SearchAnalyses</a>	Grants permission to search for a sub-set of analyses	List	<a href="#">analysis*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchDashboards</a>	Grants permission to search for a sub-set of QuickSight Dashboards	List	<a href="#">dashboard*</a>		
<a href="#">SearchDataSets</a>	Grants permission to search for a sub-set of QuickSight DataSets	List	<a href="#">dataset*</a>		
<a href="#">SearchDataSources</a>	Grants permission to search for a sub-set of QuickSight Data Sources	List	<a href="#">datasource*</a>		
<a href="#">SearchDirectoryGroups</a> [permission only]	Grants permission to use Amazon QuickSight, in Enterprise edition, to display your Microsoft Active Directory directory groups so that you can choose which ones to map to roles in Amazon QuickSight	List			
<a href="#">SearchFlows</a>	Grants permission to search flows in an Amazon QuickSight account	List			
<a href="#">SearchFolders</a>	Grants permission to search for a sub-set of QuickSight Folders	Read	<a href="#">folder*</a>		
<a href="#">SearchGroups</a>	Grants permission to search for a sub-set of QuickSight groups	List	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchTopics</a>	Grants permission to search for a sub-set of topics	List	<a href="#">topic*</a>		
<a href="#">SearchUsers</a> [permission only]	Grants permission to search the QuickSight users belonging to this account	List	<a href="#">user*</a>		
<a href="#">SetGroupMapping</a> [permission only]	Grants permission to use Amazon QuickSight, in Enterprise edition, to display your Microsoft Active Directory directory groups so that you can choose which ones to map to roles in Amazon QuickSight	Write			
<a href="#">StartAssetBundleExportJob</a>	Grants permission to start an asset bundle export job	Write	<a href="#">assetBundleExportJob*</a>		
<a href="#">StartAssetBundleImportJob</a>	Grants permission to start an asset bundle import job	Write	<a href="#">assetBundleImportJob*</a>		
<a href="#">StartDashboardSnapshotJob</a>	Grants permission to start a dashboard snapshot job	Write	<a href="#">dashboardSnapshotJob*</a>		
<a href="#">StartDashboardSnapshotJobSchedule</a>	Grants permission to start a dashboard snapshot job schedule	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Subscribe</a> [permission only]	Grants permission to subscribe to Amazon QuickSight, and also to allow the user to upgrade the subscription to Enterprise edition	Write		<a href="#">quicksight:Edition</a> <a href="#">quicksight:DirectoryType</a>	
<a href="#">TagResource</a>	Grants permission to add tags to a QuickSight resource	Tagging	<a href="#">actionconnector</a>		
			<a href="#">analysis</a>		
			<a href="#">brand</a>		
			<a href="#">customization</a>		
			<a href="#">customermissions</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
			<a href="#">datasource</a>		
			<a href="#">emailCustomizationTemplate</a>		
			<a href="#">flow</a>		
			<a href="#">folder</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ingestion</a>		
			<a href="#">template</a>		
			<a href="#">theme</a>		
			<a href="#">topic</a>		
			<a href="#">vpconnection</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">Unpublish Flow</a> [permission only]	Grants permission to unpublish a flow	Write	<a href="#">flow*</a>		
<a href="#">Unsubscribe</a> [permission only]	Grants permission to unsubscribe from Amazon QuickSight, which permanently deletes all users and their resources from Amazon QuickSight	Write			
<a href="#">UntagResource</a>	Grants permission to remove tags from a QuickSight resource	Tagging	<a href="#">actionconnector</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">analysis</a>		
			<a href="#">brand</a>		
			<a href="#">customization</a>		
			<a href="#">customermissions</a>		
			<a href="#">dashboard</a>		
			<a href="#">dataset</a>		
			<a href="#">datasource</a>		
			<a href="#">emailCustomizationTemplate</a>		
			<a href="#">flow</a>		
			<a href="#">folder</a>		
			<a href="#">ingestion</a>		
			<a href="#">template</a>		
			<a href="#">theme</a>		
			<a href="#">topic</a>		
			<a href="#">vpconnection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountCustomPermission</a>	Grants permission to update the custom permission associated with an account	Write			
<a href="#">UpdateAccountCustomization</a>	Grants permission to update an account customization for QuickSight account or namespace	Write	<a href="#">customization*</a>		
<a href="#">UpdateAccountSettings</a>	Grants permission to update the administrative account settings for QuickSight account	Write			
<a href="#">UpdateActionConnector</a>	Grants permission to update an action connector	Write	<a href="#">actionconnector*</a>		
<a href="#">UpdateActionConnectorPermissions</a>	Grants permission to update permissions for an action connector	Permissions management	<a href="#">actionconnector*</a>		
<a href="#">UpdateAgentPermissions</a> [permission only]	Grants permission to update agent permissions	Permissions management	<a href="#">agent*</a>		
<a href="#">UpdateAnalysis</a>	Grants permission to update an analysis	Write	<a href="#">analysis*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAnalysisPermissions</a>	Grants permission to update permissions for an analysis	Permissions management	<a href="#">analysis*</a>		
<a href="#">UpdateApplicationWithTokenExchangeGrant</a>	Grants permission to update QuickSight IAM Identity Center application with Token Exchange grant	Write			
<a href="#">UpdateBrand</a>	Grants permission to update a brand	Write	<a href="#">brand*</a>		
<a href="#">UpdateBrandAssignment</a>	Grants permission to update a brand assignment	Write			
<a href="#">UpdateBrandPublishedVersion</a>	Grants permission to update the published version of a brand	Write	<a href="#">brand*</a>		
<a href="#">UpdateChatConfiguration</a> [permission only]	Grants permission to update chat configuration	Write			
<a href="#">UpdateCustomerPermissions</a>	Grants permission to update a QuickSight custom permissions resource	Write	<a href="#">customerpermissions*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDashboard</a>	Grants permission to update a QuickSight Dashboard	Write	<a href="#">dashboard</a> * -		
<a href="#">UpdateDashboardLinks</a>	Grants permission to update a QuickSight Dashboard's links	Write	<a href="#">dashboard</a> * -		
<a href="#">UpdateDashboardPermissions</a>	Grants permission to update permissions for a QuickSight Dashboard	Permissions management	<a href="#">dashboard</a> * -		
<a href="#">UpdateDashboardPublishedVersion</a>	Grants permission to update a QuickSight Dashboard's Published Version	Write	<a href="#">dashboard</a> * -		
<a href="#">UpdateDashboardsQAConfiguration</a>	Grants permission to update dashboards qa configuration	Write			
<a href="#">UpdateDataset</a>	Grants permission to update a dataset	Write	<a href="#">dataset*</a>		quicksight:PassDataSource
			<a href="#">datasource</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDatasetPermissions</a>	Grants permission to update the resource policy of a dataset	Permissions management	<a href="#">dataset*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateDataSource</a>	Grants permission to update a data source	Write	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole
<a href="#">UpdateDataSourcePermissions</a>	Grants permission to update the resource policy of a data source	Permissions management	<a href="#">datasource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDefaultQBussinessApplication</a>	Grants permission to update linked QBussiness application Id for QuickSight account	Write			
<a href="#">UpdateEmailCustomizationTemplate</a> [permission only]	Grants permission to update a QuickSight email customization template	Write	<a href="#">emailCustomizationTemplate*</a>		
<a href="#">UpdateExtensionAccess</a> [permission only]	Grants permission to update an extension access	Write	<a href="#">extensionaccess*</a>		
<a href="#">UpdateFlowPermissions</a>	Grants permission to update permissions for a flow	Permissions management	<a href="#">flow*</a>		
<a href="#">UpdateFolder</a>	Grants permission to update a QuickSight Folder	Write	<a href="#">folder*</a>		
<a href="#">UpdateFolderPermissions</a>	Grants permission to update permissions for a QuickSight Folder	Permissions management	<a href="#">folder*</a>		
<a href="#">UpdateGroup</a>	Grants permission to change group description	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIAMPolicyAssignment</a>	Grants permission to update an existing assignment	Write	<a href="#">assignment*</a>		
<a href="#">UpdateIdentityPropagationConfiguration</a>	Grants permission to add and update AWS services for trusted identity propagation in QuickSight	Write			
<a href="#">UpdateIPRestriction</a>	Grants permission to update the IP restrictions for QuickSight account	Write			
<a href="#">UpdateKeyRegistration</a>	Grants permission to update QuickSight key registration	Write			
<a href="#">UpdatePublicSharingSettings</a>	Grants permission to enable or disable public sharing on an account	Write			
<a href="#">UpdatePersonalizationConfiguration</a>	Grants permission to update a personalization configuration	Write			
<a href="#">UpdateQuickIndexCapacity</a> [permission only]	Grants permission to update index capacity	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateQuickSightQSearchConfiguration</a>	Grants permission to update QuickSight Q Search configuration	Write			
<a href="#">UpdateRefreshSchedule</a>	Grants permission to update a refresh schedule for a dataset	Write	<a href="#">refreshschedule*</a>		
<a href="#">UpdateResourcePermissions</a> [permission only]	Grants permission to update resource-level permissions in QuickSight	Write			
<a href="#">UpdateRoleCustomPermission</a>	Grants permission to update the custom permission associated with a role	Write			
<a href="#">UpdateSPICECapacityConfiguration</a>	Grants permission to update QuickSight SPICE capacity configuration	Write			
<a href="#">UpdateSelfUpgrade</a>	Grants permission to take action on pending self upgrade requests associated with an account	Write	<a href="#">user*</a>		
<a href="#">UpdateSelfUpgradeConfiguration</a>	Grants permission to update the administrative self upgrade configuration associated with an account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTemplate</a>	Grants permission to update a template	Write	<a href="#">template*</a>		
<a href="#">UpdateTemplateAlias</a>	Grants permission to update a template alias	Write	<a href="#">template*</a>		
<a href="#">UpdateTemplatePermissions</a>	Grants permission to update permissions for a template	Permissions management	<a href="#">template*</a>		
<a href="#">UpdateTheme</a>	Grants permission to update a theme	Write	<a href="#">theme*</a>		
<a href="#">UpdateThemeAlias</a>	Grants permission to update the alias of a theme	Write	<a href="#">theme*</a>		
<a href="#">UpdateThemePermissions</a>	Grants permission to update permissions for a theme	Permissions management	<a href="#">theme*</a>		
<a href="#">UpdateTopic</a>	Grants permission to update a topic	Write	<a href="#">topic*</a>		quicksight:PassDataSet
			<a href="#">dataset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateTopicPermissions</a>	Grants permission to update the resource policy of a topic	Permissions management	<a href="#">topic*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateTopicRefreshSchedule</a>	Grants permission to update a refresh schedule for a topic	Write	<a href="#">topic*</a>		
<a href="#">UpdateUser</a>	Grants permission to update an Amazon QuickSight user	Write	<a href="#">user*</a>		
<a href="#">UpdateUserCustomPermission</a>	Grants permission to update the custom permission associated with a user	Write	<a href="#">user*</a>		
<a href="#">UpdateVPCConnection</a>	Grants permission to update a vpc connection	Write	<a href="#">vpcconnection*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon QuickSight

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">account</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:account/\${ResourceId}	
<a href="#">user</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:user/\${ResourceId}	
<a href="#">group</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:group/\${ResourceId}	
<a href="#">analysis</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:analysis/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">dashboard</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:dashboard/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">template</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:template/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vpcconnection</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:vpcConnection/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">assetBundleExportJob</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:asset-bundle-export-job/\${ResourceId}	
<a href="#">assetBundleImportJob</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:asset-bundle-import-job/\${ResourceId}	
<a href="#">datasource</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:datasource/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dataset</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:dataset/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ingestion</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:dataset/\${DatasetId}/ingestion/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">refreshSchedule</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:dataset/\${DatasetId}/refresh-schedule/\${ResourceId}	
<a href="#">theme</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:theme/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">assignment</a>	arn:\${Partition}:quicksight::\${Account}:assignment/\${ResourceId}	
<a href="#">customization</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:customization/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">namespace</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:namespace/\${ResourceId}	
<a href="#">folder</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:folder/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">emailCustomizationTemplate</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:email-customization-template/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">topic</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:topic/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dashboardSnapshotJob</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:dashboard/\${DashboardId}/snapshot-job/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">brand</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:brand/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custompermissions</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:custompermissions/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">actionconnector</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:action-connector/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">agent</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:agent/\${ResourceId}	
<a href="#">extension access</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:extension-access/\${ResourceId}	
<a href="#">flow</a>	arn:\${Partition}:quicksight:\${Region}:\${Account}:flow/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon QuickSight

Amazon QuickSight defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys	ArrayOfString
<a href="#">quicksight:AllowedEmbeddingDomains</a>	Filters access by the allowed embedding domains	ArrayOfString

Condition keys	Description	Type
<a href="#">quicksigh</a> <a href="#">t:DirectoryType</a>	Filters access by the user management options	String
<a href="#">quicksigh</a> <a href="#">t:Edition</a>	Filters access by the edition of QuickSight	String
<a href="#">quicksigh</a> <a href="#">t:Group</a>	Filters access by QuickSight group ARN	ARN
<a href="#">quicksigh</a> <a href="#">t:IamArn</a>	Filters access by IAM user or role ARN	ARN
<a href="#">quicksigh</a> <a href="#">t:KmsKeyArns</a>	Filters access by KMS key ARNs	ArrayOfARN
<a href="#">quicksigh</a> <a href="#">t:SessionName</a>	Filters access by session name	String
<a href="#">quicksigh</a> <a href="#">t:UserName</a>	Filters access by user name	String

## Actions, resources, and condition keys for Amazon RDS

Amazon RDS (service prefix: `rds`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon RDS](#)
- [Resource types defined by Amazon RDS](#)

- [Condition keys for Amazon RDS](#)

## Actions defined by Amazon RDS

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddRoleToDBCluster</a>	Grants permission to associate an Identity and Access Management (IAM) role from an Aurora DB cluster	Write	<a href="#">cluster*</a>		iam:PassRole
<a href="#">AddRoleToDBInstance</a>	Grants permission to associate an AWS Identity and Access Management (IAM) role with a DB instance	Write	<a href="#">db*</a>		iam:PassRole
<a href="#">AddSourceIdentifierToSubscription</a>	Grants permission to add a source identifier to an existing RDS event notification subscription	Write	<a href="#">es*</a>		
<a href="#">AddTagsToResource</a>	Grants permission to add metadata tags to an Amazon RDS resource	Tagging	<a href="#">auto-backup</a>		
			<a href="#">cev</a>		
			<a href="#">cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cluster-auto-backup</a>		
			<a href="#">cluster-endpoint</a>		
			<a href="#">cluster-pg</a>		
			<a href="#">cluster-snapshot</a>		
			<a href="#">db</a>		
			<a href="#">deployment</a>		
			<a href="#">es</a>		
			<a href="#">global-cluster</a>		
			<a href="#">integration</a>		
			<a href="#">og</a>		
			<a href="#">pg</a>		
			<a href="#">proxy</a>		
			<a href="#">proxy-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ri</a>		
			<a href="#">secgrp</a>		
			<a href="#">shardgrp</a>		
			<a href="#">snapshot</a>		
			<a href="#">snapshot-tenant-database</a>		
			<a href="#">subgrp</a>		
			<a href="#">target-group</a>		
			<a href="#">tenant-database</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:TagsFromRequest</a>	
<a href="#">ApplyPendingMaintenanceAction</a>	Grants permission to apply a pending maintenance action to a resource	Write	<a href="#">cluster</a> <a href="#">db</a>		
<a href="#">AuthorizeDBSecurityGroupIngress</a>	Grants permission to enable ingress to a DBSecurityGroup using one of two forms of authorization	Permissions management	<a href="#">secgrp*</a>		
<a href="#">BacktrackDBCluster</a>	Grants permission to backtrack a DB cluster to a specific time, without creating a new DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">CancelExportTask</a>	Grants permission to cancel an export task in progress	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyCustomDBEngineVersion</a> [permission only]	Grants permission to copy a custom engine version	Write	<a href="#">cev*</a>		
<a href="#">CopyDBClusterParameterGroup</a>	Grants permission to copy the specified DB cluster parameter group	Write	<a href="#">cluster-parameter-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rds:req-tag/\${TagKey}</a>	rds:AddTagsToResource
<a href="#">CopyDBClusterSnapshot</a>	Grants permission to create a snapshot of a DB cluster	Write	<a href="#">cluster-snapshot*</a>		rds:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CopyDBParameterGroup</a>	Grants permission to copy the specified DB parameter group	Write	<a href="#">pg*</a>		<a href="#">rds:AddTagsToResource</a>
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CopyDBSnapshot</a>	Grants permission to copy the specified DB snapshot	Write	<a href="#">snapshot*</a>		rds:AddTagsToResource  rds:CopyCustomDBEngineVersion
<a href="#">CopyOptionGroup</a>	Grants permission to copy the specified option group	Write	<a href="#">og*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rds:req-tag/\${TagKey}</a>  <a href="#">rds:CopyOptionGroup</a>	rds:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateBlueGreenDeployment</a>	Grants permission to create a blue-green deployment for a given source cluster or instance	Write	<a href="#">deployment*</a>		<a href="#">rds:AddTagsToResource</a> <a href="#">rds:CreateDBCluster</a> <a href="#">rds:CreateDBClusterEndpoint</a> <a href="#">rds:CreateDBInstance</a> <a href="#">rds:CreateDBInstanceReadReplica</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cluster</a>		
			<a href="#">cluster-pg</a>		
			<a href="#">db</a>		
			<a href="#">pg</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">aws:ResourceTag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">rds:cluster-tag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">rds:cluster-pg-tag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">rds:db-tag/</a> <a href="#">\${TagKey}</a>	
				<a href="#">rds:pg-tag/</a> <a href="#">\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:DatabaseEngine</a> <a href="#">rds:DatabaseName</a> <a href="#">rds:StorageEncrypted</a> <a href="#">rds:DatabaseClass</a> <a href="#">rds:StorageSize</a> <a href="#">rds:MultiAz</a> <a href="#">rds:Piops</a> <a href="#">rds:Vpc</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomDBEngineVersion</a>	Grants permission to create a custom engine version	Write	<a href="#">cev*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rds:req-tag/\${TagKey}</a>	iam:CreateServiceLinkedRole  mediainport:CreateDatabaseBinarySnapshot  rds:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDBCluster</a>	Grants permission to create a new DB cluster	Write	<a href="#">cluster*</a>		iam:PassRole  kms:CreateGrant  kms:Decrypt  kms:DescribeKey  kms:GenerateDataKey  rds:AddTagsToResource  rds>CreateDBInstance  secretsmanager:CreateSecret  secretsmanager:TagResource
			<a href="#">cluster-pg*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">og*</a>		
			<a href="#">subgrp*</a>		
			<a href="#">db</a>		
			<a href="#">global-cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:DatabaseEngine</a> <a href="#">rds:DatabaseName</a> <a href="#">rds:StorageEncrypted</a> <a href="#">rds:DatabaseClass</a> <a href="#">rds:StorageSize</a> <a href="#">rds:Piops</a> <a href="#">rds:ManageMasterUs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">erPassword</a>	
<a href="#">CreateDBClusterEndpoint</a>	Grants permission to create a new custom endpoint and associates it with an Amazon Aurora DB cluster or Amazon DocumentDB cluster	Write	<a href="#">cluster*</a>		rds:AddTagsToResource
			<a href="#">cluster-endpoint*</a>		
				<a href="#">rds:EndpointType</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateDBClusterParameterGroup</a>	Grants permission to create a new DB cluster parameter group	Write	<a href="#">cluster-parameter*</a>		rds:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateDBClusterSnapshot</a>	Grants permission to create a snapshot of a DB cluster	Write	<a href="#">cluster*</a>		<a href="#">rds:AddTagsToResource</a>
			<a href="#">cluster-snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDBInstance</a>	Grants permission to create a new DB instance	Write	<a href="#">db*</a>		iam:PassRole kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey rds:AddTagsToResource rds:CreateTenantDatabase secretsmanager:CreateSecret secretsmanager:TagResource
			<a href="#">cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">og</a>		
			<a href="#">pg</a>		
			<a href="#">secgrp</a>		
			<a href="#">subgrp</a>		
				<a href="#">rds:BackupTarget</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:ManageMasterUserPassword</a> <a href="#">rds:PubliclyAccessible</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDBInstanceReadReplica</a>	Grants permission to create a DB instance that acts as a Read Replica of a source DB instance	Write	<a href="#">cluster*</a>		iam:PassRole  rds:AddTagsToResource
			<a href="#">db*</a>		
			<a href="#">log*</a>		
			<a href="#">pg*</a>		
			<a href="#">subgrp*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rds:request-tag/\${TagKey}</a>  <a href="#">rds:PubliclyAccessible</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDBParameterGroup</a>	Grants permission to create a new DB parameter group	Write	<a href="#">pg*</a>		rds:AddTagsToResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateDBProxy</a>	Grants permission to create a database proxy	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole rds:AddTagsToResource
<a href="#">CreateDBProxyEndpoint</a>	Grants permission to create a database proxy endpoint	Write	<a href="#">proxy*</a>		rds:AddTagsToResource
			<a href="#">proxy-endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDBSecurityGroup</a>	Grants permission to create a new DB security group. DB security groups control access to a DB instance	Write	<a href="#">secgrp*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	rds:AddTagsToResource
<a href="#">CreateDBShardGroup</a>	Grants permission to create a new Aurora Limitless Database DB shard group	Write	<a href="#">cluster*</a> <a href="#">shardgrp*</a>		rds:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:PubliclyAccessible</a>	
<a href="#">CreateDBSnapshot</a>	Grants permission to create a DBSnapshot	Write	<a href="#">db*</a> <a href="#">snapshot*</a>		rds:AddTagsToResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">rds:BackupTarget</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateDBSubnetGroup</a>	Grants permission to create a new DB subnet group	Write	<a href="#">subgrp*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	<a href="#">rds:AddTagsToResource</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEventSubscription</a>	Grants permission to create an RDS event notification subscription	Write	<a href="#">es*</a>		rds:AddTagsToResource
<a href="#">CreateGlobalCluster</a>	Grants permission to create an Aurora global database or DocumentDB global database spread across multiple regions	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	rds:AddTagsToResource
			<a href="#">global-cluster*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateOptionGroup</a>	Grants permission to create a new option group	Write	<a href="#">og*</a>		rds:AddTagsToResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	
<a href="#">CreateTenantDatabase</a>	Grants permission to create a new tenant database	Write	<a href="#">db*</a>		rds:AddTagsToResource



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">tenant-database*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:TenantDatabaseName</a> <a href="#">rds:ManageMasterUserPassword</a>	
<a href="#">CrossRegionCommunication</a> [permission only]	Grants permission to access a resource in the remote Region when executing cross-Region operations, such as cross-Region snapshot copy or cross-Region read replica creation	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBlueGreenDeployment</a>	Grants permission to delete blue green deployments	Write	<a href="#">deployment*</a>		rds:DeleteDBCluster  rds:DeleteDBClusterEndpoint  rds:DeleteDBInstance  rds:PromoteReadReplica  rds:PromoteReadReplicaDBCluster
<a href="#">DeleteCustomDBEngineVersion</a>	Grants permission to delete an existing custom engine version	Write	<a href="#">cev*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDBCluster</a>	Grants permission to delete a previously provisioned DB cluster	Write	<a href="#">cluster*</a>		rds:AddTagsToResource  rds:CreateDBClusterSnapshot  rds:DeleteDBInstance
			<a href="#">cluster-snapshot*</a>		
<a href="#">DeleteDBClusterAutomatedBackup</a>	Grants permission to delete cluster automated backups based on the source cluster's DbClusterResourceID value or the restorable cluster's resource ID	Write	<a href="#">cluster-auto-backup*</a>		
<a href="#">DeleteDBClusterEndpoint</a>	Grants permission to delete a custom endpoint and removes it from an Amazon Aurora DB cluster or Amazon DocumentDB cluster	Write	<a href="#">cluster-endpoint*</a>		
<a href="#">DeleteDBClusterParameterGroup</a>	Grants permission to delete a specified DB cluster parameter group	Write	<a href="#">cluster-parameter-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDBClusterSnapshot</a>	Grants permission to delete a DB cluster snapshot	Write	<a href="#">cluster-snapshot*</a>		
<a href="#">DeleteDBInstance</a>	Grants permission to delete a previously provisioned DB instance	Write	<a href="#">db*</a>		rds:AddTagsToResource  rds:CreateDBSnapshot  rds:DeleteTenantDatabase
<a href="#">DeleteDBInstanceAutomatedBackup</a>	Grants permission to delete automated backups based on the source instance's DbiResourceId value or the restorable instance's resource ID	Write	<a href="#">auto-backup*</a>		
<a href="#">DeleteDBParameterGroup</a>	Grants permission to delete a specified DBParameterGroup	Write	<a href="#">pg*</a>		
<a href="#">DeleteDBProxy</a>	Grants permission to delete a database proxy	Write	<a href="#">proxy*</a>		
<a href="#">DeleteDBProxyEndpoint</a>	Grants permission to delete a database proxy endpoint	Write	<a href="#">proxy-endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDBSecurityGroup</a>	Grants permission to delete a DB security group	Write	<a href="#">secgrp*</a>		
<a href="#">DeleteDBShardGroup</a>	Grants permission to delete an Aurora Limitless Database DB shard group	Write	<a href="#">shardgrp*</a>		
<a href="#">DeleteDBSnapshot</a>	Grants permission to delete a DBSnapshot	Write	<a href="#">snapshot*</a>		
<a href="#">DeleteDBSubnetGroup</a>	Grants permission to delete a DB subnet group	Write	<a href="#">subgrp*</a>		
<a href="#">DeleteEventSubscription</a>	Grants permission to delete an RDS event notification subscription	Write	<a href="#">es*</a>		
<a href="#">DeleteGlobalCluster</a>	Grants permission to delete a global database cluster	Write	<a href="#">global-cluster*</a>		
<a href="#">DeleteIntegration</a>	Grants permission to delete an Aurora zero-ETL integration with Redshift	Write	<a href="#">integration*</a>		
<a href="#">DeleteOptionGroup</a>	Grants permission to delete an existing option group	Write	<a href="#">og*</a>		
<a href="#">DeleteTenantDatabase</a>	Grants permission to delete a tenant database	Write	<a href="#">db*</a>		rds:AddTagsToResource  rds:CreateDBSnapshot

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">tenant-database*</a>		
<a href="#">DeregisterDBProxyTargets</a>	Grants permission to remove targets from a database proxy target group	Write	<a href="#">cluster*</a>		
			<a href="#">db*</a>		
			<a href="#">proxy*</a>		
			<a href="#">target-group*</a>		
<a href="#">DescribeAccountAttributes</a>	Grants permission to list all of the attributes for a customer account	List			
<a href="#">DescribeBlueGreenDeployments</a>	Grants permission to describe blue green deployments	List	<a href="#">deployment</a>		
<a href="#">DescribeCertificates</a>	Grants permission to list the set of CA certificates provided by Amazon RDS for this AWS account	List			
<a href="#">DescribeDBClusterAutomatedBackups</a>	Grants permission to return a list of cluster automated backups for both current and deleted clusters	List	<a href="#">cluster</a>		
			<a href="#">cluster-auto-backup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDBClusterBacktracks</a>	Grants permission to return information about backtracks for a DB cluster	List	<a href="#">cluster*</a>		
<a href="#">DescribeDBClusterEndpoints</a>	Grants permission to return information about endpoints for an Amazon Aurora DB cluster	List	<a href="#">cluster</a> <a href="#">cluster-endpoint</a>		
<a href="#">DescribeDBClusterParameterGroups</a>	Grants permission to return a list of DBClusterParameterGroup descriptions	List	<a href="#">cluster-pg</a>		
<a href="#">DescribeDBClusterParameters</a>	Grants permission to return the detailed parameter list for a particular DB cluster parameter group	List	<a href="#">cluster-pg*</a>		
<a href="#">DescribeDBClusterSnapshotAttributes</a>	Grants permission to return a list of DB cluster snapshot attribute names and values for a manual DB cluster snapshot	List	<a href="#">cluster-snapshot*</a>		
<a href="#">DescribeDBClusterSnapshots</a>	Grants permission to return information about DB cluster snapshots	List	<a href="#">cluster</a> <a href="#">cluster-snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDBClusters</a>	Grants permission to return information about provisioned Aurora DB clusters or DocumentDB clusters	List	<a href="#">cluster</a>		
<a href="#">DescribeDBEngineVersions</a>	Grants permission to return a list of the available DB engines	List			
<a href="#">DescribeDBInstanceAutomatedBackups</a>	Grants permission to return a list of automated backups for both current and deleted instances	List	<a href="#">auto-backup</a> <a href="#">db</a>		
<a href="#">DescribeDBInstances</a>	Grants permission to return information about provisioned RDS instances	List	<a href="#">db</a>		
<a href="#">DescribeDBLogFiles</a>	Grants permission to return a list of DB log files for the DB instance	List	<a href="#">db*</a>		
<a href="#">DescribeDBMajorEngineVersions</a>	Grants permission to return information specific for each DB major engine versions	List			
<a href="#">DescribeDBParameterGroups</a>	Grants permission to return a list of DBParameterGroup descriptions	List	<a href="#">pg</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDBParameters</a>	Grants permission to return the detailed parameter list for a particular DB parameter group	List	<a href="#">pg*</a>		
<a href="#">DescribeDBProxies</a>	Grants permission to view proxies	List	<a href="#">proxy</a>		
<a href="#">DescribeDBProxyEndpoints</a>	Grants permission to view proxy endpoints	List	<a href="#">proxy</a> <a href="#">proxy-endpoint</a>		
<a href="#">DescribeDBProxyTargetGroups</a>	Grants permission to view database proxy target group details	List	<a href="#">proxy*</a>		
<a href="#">DescribeDBProxyTargets</a>	Grants permission to view database proxy target details	List	<a href="#">proxy*</a> <a href="#">target-group*</a>		
<a href="#">DescribeDBRecommendations</a>	Grants permission to list recommendation details	List			
<a href="#">DescribeDBSecurityGroups</a>	Grants permission to return a list of DBSecurityGroup descriptions	List	<a href="#">secgrp</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDBShardGroups</a>	Grants permission to return information about all Aurora Limitless Database DB shard groups for this account. You can filter by shard group(s)	List	<a href="#">shardgrp</a>		
<a href="#">DescribeDBSnapshotAttributes</a>	Grants permission to return a list of DB snapshot attribute names and values for a manual DB snapshot	List	<a href="#">snapshot*</a>		
<a href="#">DescribeDBSnapshotTenantDatabases</a>	Grants permission to return information about tenant databases in DB snapshots . You can filter by Region or snapshot	List	<a href="#">db</a>		
			<a href="#">snapshot</a>		
			<a href="#">snapshot-tenant-database</a>		
<a href="#">DescribeDBSnapshots</a>	Grants permission to return information about DB snapshots	List	<a href="#">db</a>		
			<a href="#">snapshot</a>		
<a href="#">DescribeDBSubnetGroups</a>	Grants permission to return a list of DBSubnetGroup descriptions	List	<a href="#">subgrp</a>		
<a href="#">DescribeEngineDefaultClusterParameters</a>	Grants permission to return the default engine and system parameter information for the cluster database engine	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEngineDefaultParameters</a>	Grants permission to return the default engine and system parameter information for the specified database engine	List			
<a href="#">DescribeEventCategories</a>	Grants permission to display a list of categories for all event source types, or, if specified, for a specified source type	List			
<a href="#">DescribeEventSubscriptions</a>	Grants permission to list all the subscription descriptions for a customer account	List	<a href="#">es</a>		
<a href="#">DescribeEvents</a>	Grants permission to return events related to DB instances , DB security groups, DB snapshots, and DB parameter groups for the past 14 days	List			
<a href="#">DescribeExportTasks</a>	Grants permission to return information about the export tasks	List	<a href="#">cluster</a>		
			<a href="#">cluster-snapshot</a>		
			<a href="#">snapshot</a>		
<a href="#">DescribeGlobalClusters</a>	Grants permission to return information about Aurora global database clusters or DocumentDB global database clusters	List	<a href="#">global-cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeIntegrations</a>	Grants permission to describe an Aurora zero-ETL integration with Redshift	List	<a href="#">integration</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeOptionGroupOptions</a>	Grants permission to describe all available options	List			
<a href="#">DescribeOptionGroups</a>	Grants permission to describe the available option groups	List	<a href="#">og</a>		
<a href="#">DescribeOrderableDBInstanceOptions</a>	Grants permission to return a list of orderable DB instance options for the specified engine	List			
<a href="#">DescribePendingMaintenanceActions</a>	Grants permission to return a list of resources (for example, DB instances) that have at least one pending maintenance action	List	<a href="#">cluster</a> <a href="#">db</a>		
<a href="#">DescribeRecommendationGroups</a> [permission only]	Grants permission to return information about recommendation groups	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRecommendations</a> [permission only]	Grants permission to return information about recommendations	Read			
<a href="#">DescribeReservedDBInstances</a>	Grants permission to return information about reserved DB instances for this account, or about a specified reserved DB instance	List	<a href="#">ri</a>		
<a href="#">DescribeReservedDBInstancesOfferings</a>	Grants permission to list available reserved DB instance offerings	List			
<a href="#">DescribeSourceRegions</a>	Grants permission to return a list of the source AWS Regions where the current AWS Region can create a Read Replica or copy a DB snapshot from	List			
<a href="#">DescribeTenantDatabases</a>	Grants permission to return information about provisioned tenant databases. You can filter by Region or snapshot	List	<a href="#">db</a> <a href="#">tenant-database</a>		
<a href="#">DescribeValidDBInstanceModifications</a>	Grants permission to list available modifications you can make to your DB instance	List	<a href="#">db*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableHttpEndpoint</a>	Grants permission to disable http endpoint for a DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">DownloadCompleteDBLogFile</a>	Grants permission to download specified log file	Read	<a href="#">db*</a>		
<a href="#">DownloadDBLogFilePortion</a>	Grants permission to download all or a portion of the specified log file, up to 1 MB in size	Read	<a href="#">db*</a>		
<a href="#">EnableHttpEndpoint</a>	Grants permission to enable http endpoint for a DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">FailoverDBCluster</a>	Grants permission to force a failover for a DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">FailoverGlobalCluster</a>	Grants permission to failover a global cluster	Write	<a href="#">cluster*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags on an Amazon RDS resource	Read	<a href="#">auto-backup</a>		
			<a href="#">cev</a>		
			<a href="#">cluster</a>		
			<a href="#">cluster-auto-backup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cluster-endpoint</a>		
			<a href="#">cluster-pg</a>		
			<a href="#">cluster-snapshot</a>		
			<a href="#">db</a>		
			<a href="#">es</a>		
			<a href="#">global-cluster</a>		
			<a href="#">integration</a>		
			<a href="#">og</a>		
			<a href="#">pg</a>		
			<a href="#">proxy</a>		
			<a href="#">proxy-endpoint</a>		
			<a href="#">ri</a>		
			<a href="#">secgrp</a>		
			<a href="#">shardgrp</a>		
			<a href="#">snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot-tenant-database</a>		
			<a href="#">subgrp</a>		
			<a href="#">target-group</a>		
			<a href="#">tenant-database</a>		
<a href="#">ModifyActivityStream</a>	Grants permission to modify a database activity stream	Write	<a href="#">db*</a>		
<a href="#">ModifyCertificates</a>	Grants permission to modify the system-default Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificate for Amazon RDS for new DB instances	Write			
<a href="#">ModifyCurrentDBClusterCapacity</a>	Grants permission to modify current cluster capacity for an Amazon Aurora Serverless DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">ModifyCustomDBEngineVersion</a>	Grants permission to modify an existing custom engine version	Write	<a href="#">cev*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyDBCluster</a>	Grants permission to modify a setting for an Amazon Aurora DB cluster or Amazon DocumentDB cluster	Write	<a href="#">cluster*</a>		iam:PassRole kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey rds:ModifyDBInstance secretsmanager:CreateSecret secretsmanager:RotateSecret secretsmanager:TagResource
			<a href="#">cluster-pg</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">og</a>		
			<a href="#">pg</a>	<a href="#">rds:DatabaseClass</a> <a href="#">rds:StorageSize</a> <a href="#">rds:Piops</a> <a href="#">rds:ManageMasterUserPassword</a>	
<a href="#">ModifyDBClusterEndpoint</a>	Grants permission to modify the properties of an endpoint in an Amazon Aurora DB cluster or Amazon DocumentDB cluster	Write	<a href="#">cluster-endpoint*</a>		
<a href="#">ModifyDBClusterParameterGroup</a>	Grants permission to modify the parameters of a DB cluster parameter group	Write	<a href="#">cluster-parameter*</a>		
<a href="#">ModifyDBClusterSnapshotAttribute</a>	Grants permission to add an attribute and values to, or removes an attribute and values from, a manual DB cluster snapshot	Write	<a href="#">cluster-snapshot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyDBInstance</a>	Grants permission to modify settings for a DB instance	Write	<a href="#">db*</a>		iam:PassRole kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey rds:AddTagsToResource rds:CreateTenantDatabase secretsmanager:CreateSecret secretsmanager:RotateSecret

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:TagResource
			<a href="#">og</a>		
			<a href="#">pg</a>		
			<a href="#">secgrp</a>		
			<a href="#">subgrp</a>		
				<a href="#">rds:ManageMasterUserPassword</a>	
<a href="#">ModifyDBParameterGroup</a>	Grants permission to modify the parameters of a DB parameter group	Write	<a href="#">pg*</a>		
<a href="#">ModifyDBProxy</a>	Grants permission to modify database proxy	Write	<a href="#">proxy*</a>		iam:PassRole
<a href="#">ModifyDBProxyEndpoint</a>	Grants permission to modify database proxy endpoint	Write	<a href="#">proxy-endpoint*</a>		
<a href="#">ModifyDBProxyTargetGroup</a>	Grants permission to modify target group for a database proxy	Write	<a href="#">target-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyDBRecommendation</a>	Grants permission to modify recommendation	Write			
<a href="#">ModifyDBShardGroup</a>	Grants permission to modify properties of an Aurora Limitless Database DB shard group	Write	<a href="#">shardgrp*</a>		
<a href="#">ModifyDBSnapshot</a>	Grants permission to update a manual DB snapshot, which can be encrypted or not encrypted, with a new engine version	Write	<a href="#">snapshot*</a> <a href="#">og</a>		
<a href="#">ModifyDBSnapshotAttribute</a>	Grants permission to add an attribute and values to, or removes an attribute and values from, a manual DB snapshot	Write	<a href="#">snapshot*</a>		
<a href="#">ModifyDBSubnetGroup</a>	Grants permission to modify an existing DB subnet group	Write	<a href="#">subgrp*</a>		
<a href="#">ModifyEventSubscription</a>	Grants permission to modify an existing RDS event notification subscription	Write	<a href="#">es*</a>		
<a href="#">ModifyGlobalCluster</a>	Grants permission to modify a setting for an Amazon Aurora global cluster or Amazon DocumentDB global cluster	Write	<a href="#">global-cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyIntegration</a>	Grants permission to modify an Aurora zero-ETL integration with Redshift	Write	<a href="#">integration*</a>		
<a href="#">ModifyOptionGroup</a>	Grants permission to modify an existing option group	Write	<a href="#">og*</a>		iam:PassRole
<a href="#">ModifyRecommendation</a> [permission only]	Grants permission to modify recommendation	Write			
<a href="#">ModifyTenantDatabase</a>	Grants permission to modify a tenant database	Write	<a href="#">db*</a>		
			<a href="#">tenant-database*</a>		
				<a href="#">rds:TenantDatabaseName</a> <a href="#">rds:ManageMasterUserPassword</a>	
<a href="#">PromoteReadReplica</a>	Grants permission to promote a Read Replica DB instance to a standalone DB instance	Write	<a href="#">db*</a>		rds:AddTagsToResource
<a href="#">PromoteReadReplicaDBCluster</a>	Grants permission to promote a Read Replica DB cluster to a standalone DB cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PurchaseReservedDBInstancesOffering</a>	Grants permission to purchase a reserved DB instance offering	Write	<a href="#">ri*</a>		rds:AddTagsToResource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:request-tag/\${TagKey}</a>	
<a href="#">RebootDBCluster</a>	Grants permission to reboot a previously provisioned DB cluster	Write	<a href="#">cluster*</a>		rds:RebootDBInstance
<a href="#">RebootDBInstance</a>	Grants permission to restart the database engine service	Write	<a href="#">db*</a>		
<a href="#">RebootDBShardGroup</a>	Grants permission to reboot an Aurora Limitless Database DB shard group	Write	<a href="#">shardgrp*</a>		
<a href="#">RegisterDBProxyTargets</a>	Grants permission to add targets to a database proxy target group	Write	<a href="#">target-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveFromGlobalCluster</a>	Grants permission to detach an Aurora secondary cluster from an Aurora global database cluster or DocumentDB global cluster	Write	<a href="#">cluster*</a> <a href="#">global-cluster*</a>		
<a href="#">RemoveRoleFromDBCluster</a>	Grants permission to disassociate an AWS Identity and Access Management (IAM) role from an Amazon Aurora DB cluster	Write	<a href="#">cluster*</a>		iam:PassRole
<a href="#">RemoveRoleFromDBInstance</a>	Grants permission to disassociate an AWS Identity and Access Management (IAM) role from a DB instance	Write	<a href="#">db*</a>		iam:PassRole
<a href="#">RemoveSourceIdentifierFromSubscription</a>	Grants permission to remove a source identifier from an existing RDS event notification subscription	Write	<a href="#">es*</a>		
<a href="#">RemoveTagsFromResource</a>	Grants permission to remove metadata tags from an Amazon RDS resource	Tagging	<a href="#">auto-backup</a>		
			<a href="#">cev</a>		
			<a href="#">cluster</a>		
			<a href="#">cluster-auto-backup</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cluster-endpoint</a>		
			<a href="#">cluster-pg</a>		
			<a href="#">cluster-snapshot</a>		
			<a href="#">db</a>		
			<a href="#">deployment</a>		
			<a href="#">es</a>		
			<a href="#">global-cluster</a>		
			<a href="#">integration</a>		
			<a href="#">og</a>		
			<a href="#">pg</a>		
			<a href="#">proxy</a>		
			<a href="#">proxy-endpoint</a>		
			<a href="#">ri</a>		
			<a href="#">secgrp</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">shardgrp</a>		
			<a href="#">snapshot</a>		
			<a href="#">snapshot-tenant-database</a>		
			<a href="#">subgrp</a>		
			<a href="#">target-group</a>		
			<a href="#">tenant-database</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:request-tag/\${TagKey}</a>	
<a href="#">ResetDBClusterParameterGroup</a>	Grants permission to modify the parameters of a DB cluster parameter group to the default value	Write	<a href="#">cluster-parameter-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResetDBParameterGroup</a>	Grants permission to modify the parameters of a DB parameter group to the engine/system default value	Write	<a href="#">pg*</a>		
<a href="#">RestoreDBClusterFromS3</a>	Grants permission to create an Amazon Aurora DB cluster from data stored in an Amazon S3 bucket	Write	<a href="#">cluster*</a>		iam:PassRole kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey rds:AddTagsToResource secretsmanager:CreateSecret secretsmanager:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cluster-pg*</a>		
			<a href="#">og*</a>		
			<a href="#">subgrp*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">rds:req-tag/\${TagKey}</a>	
				<a href="#">rds:DatabaseEngine</a>	
				<a href="#">rds:DatabaseName</a>	
				<a href="#">rds:StorageEncrypted</a>	
				<a href="#">rds:ManageMasterUserPassword</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreDBClusterFromSnapshot</a>	Grants permission to create a new DB cluster from a DB cluster snapshot	Write	<a href="#">cluster*</a>		iam:PassRole  rds:AddTagsToResource  rds:CreateDBInstance
			<a href="#">cluster-pg*</a>		
			<a href="#">og*</a>		
			<a href="#">subgrp*</a>		
			<a href="#">cluster-snapshot</a>		
			<a href="#">snapshot</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rds:req-tag/</a> <a href="#">\${TagKey}</a>  <a href="#">rds:DatabaseClass</a>  <a href="#">rds:StorageSize</a>  <a href="#">rds:Piops</a>	
<a href="#">RestoreDBClusterToPointInTime</a>	Grants permission to restore a DB cluster to an arbitrary point in time	Write	<a href="#">cluster*</a>		iam:PassRole  rds:AddTagsToResource  rds:CreateDBInstance
			<a href="#">cluster-pg*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">og*</a>		
			<a href="#">subgrp*</a>		
			<a href="#">cluster-auto-backup</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">rds:request-tag/\${TagKey}</a>	
				<a href="#">rds:DatabaseClass</a>	
				<a href="#">rds:StorageSize</a>	
				<a href="#">rds:Piops</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreDBInstanceFromDBSnapshot</a>	Grants permission to create a new DB instance from a DB snapshot	Write	<a href="#">db*</a>  <a href="#">og*</a>  <a href="#">pg*</a>  <a href="#">subgrp*</a>  <a href="#">cluster-snapshot</a>  <a href="#">snapshot</a>		iam:PassRole  rds:AddTagsToResource  rds>CreateTenantDatabase



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">rds:BackupTarget</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:ManageMasterUserPassword</a> <a href="#">rds:PubliclyAccessible</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreDBInstanceFromS3</a>	Grants permission to create a new DB instance from an Amazon S3 bucket	Write	<a href="#">db*</a>		iam:PassRole  kms:CreateGrant  kms:Decrypt  kms:DescribeKey  kms:GenerateDataKey  rds:AddTagsToResource  secretsmanager:CreateSecret  secretsmanager:TagResource
			<a href="#">og*</a>		
			<a href="#">pg*</a>		
			<a href="#">subgrp*</a>		
			<a href="#">secgrp</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rds:req-tag/\${TagKey}</a>  <a href="#">rds:ManageMasterUserPassword</a>  <a href="#">rds:PubliclyAccessible</a>	
<a href="#">RestoreDBInstanceToPointInTime</a>	Grants permission to restore a DB instance to an arbitrary point in time	Write	<a href="#">db*</a>		iam:PassRole  rds:AddTagsToResource  rds>CreateTenantDatabase
			<a href="#">og*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">pg*</a>		
			<a href="#">subgrp*</a>		
			<a href="#">auto-backup</a>		
				<a href="#">rds:BackupTarget</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a> <a href="#">rds:ManageMasterUserPassword</a> <a href="#">rds:PubliclyAccessible</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokeDBSecurityGroupIngress</a>	Grants permission to revoke ingress from a DBSecurityGroup for previously authorized IP ranges or EC2 or VPC Security Groups	Write	<a href="#">secgrp*</a>		
<a href="#">StartActivityStream</a>	Grants permission to start Activity Stream	Write	<a href="#">cluster</a> <a href="#">db</a>		
<a href="#">StartDBCluster</a>	Grants permission to start the DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">StartDBInstance</a>	Grants permission to start the DB instance	Write	<a href="#">db*</a>		
<a href="#">StartDBInstanceAutomatedBackupsReplication</a>	Grants permission to start replication of automated backups to a different AWS Region	Write	<a href="#">auto-backup*</a> <a href="#">db*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rds:req-tag/\${TagKey}</a>	<a href="#">rds:AddTagsToResource</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartExportTask</a>	Grants permission to start a new Export task for a DB snapshot	Write	<a href="#">cluster</a>		iam:PassRole
			<a href="#">cluster-snapshot</a>		
			<a href="#">snapshot</a>		
<a href="#">StopActivityStream</a>	Grants permission to stop Activity Stream	Write	<a href="#">cluster</a>		
			<a href="#">db</a>		
<a href="#">StopDBCluster</a>	Grants permission to stop the DB cluster	Write	<a href="#">cluster*</a>		
<a href="#">StopDBInstance</a>	Grants permission to stop the DB instance	Write	<a href="#">db*</a>		rds:AddTagsToResource  rds:CreateDBSnapshot
			<a href="#">snapshot</a>		
<a href="#">StopDBInstanceAutomatedBackupsReplication</a>	Grants permission to stop automated backup replication for a DB instance	Write	<a href="#">db*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SwitchoverBlueGreenDeployment</a>	Grants permission to switch a blue-green deployment from source instance or cluster to target	Write	<a href="#">deployment*</a>		rds:ModifyDBCluster  rds:ModifyDBInstance  rds:PromoteReadReplica  rds:PromoteReadReplicaDBCluster
<a href="#">SwitchoverGlobalCluster</a>	Grants permission to switchover a global cluster	Write	<a href="#">cluster*</a>  <a href="#">global-cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SwitchoverReadReplica</a>	Grants permission to switch over a read replica, making it the new primary database	Write	<a href="#">db*</a>		

## Resource types defined by Amazon RDS

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cluster:\${DbClusterInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:cluster-tag/\${TagKey}</a>
<a href="#">shardgrp</a>	arn:\${Partition}:rds:\${Region}:\${Account}:shard-group:\${DbShardGroupResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cluster-auto-backup</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cluster-auto-backup:\${DbClusterAutomatedBackupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">auto-backup</a>	arn:\${Partition}:rds:\${Region}:\${Account}:auto-backup:\${DbInstanceAutomatedBackupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cluster-endpoint</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cluster-endpoint:\${DbClusterEndpoint}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cluster-pg</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cluster-pg:\${ClusterParameterGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:cluster-pg-tag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">cluster-snapshot</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cluster-snapshot:\${ClusterSnapshotName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:cluster-snapshot-tag/\${TagKey}</a>
<a href="#">db</a>	arn:\${Partition}:rds:\${Region}:\${Account}:db:\${DbInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:DatabaseClass</a>  <a href="#">rds:DatabaseEngine</a>  <a href="#">rds:DatabaseName</a>  <a href="#">rds:MultiAz</a>  <a href="#">rds:Piops</a>  <a href="#">rds:StorageEncrypted</a>  <a href="#">rds:StorageSize</a>  <a href="#">rds:Vpc</a>  <a href="#">rds:db-tag/\${TagKey}</a>
<a href="#">es</a>	arn:\${Partition}:rds:\${Region}:\${Account}:es:\${SubscriptionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:es-tag/\${TagKey}</a>
<a href="#">global-cluster</a>	arn:\${Partition}:rds:::\${Account}:global-cluster:\${GlobalCluster}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">og</a>	arn:\${Partition}:rds:\${Region}:\${Account}:og:\${OptionGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:og-tag/\${TagKey}</a>
<a href="#">pg</a>	arn:\${Partition}:rds:\${Region}:\${Account}:pg:\${ParameterGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:pg-tag/\${TagKey}</a>
<a href="#">proxy</a>	arn:\${Partition}:rds:\${Region}:\${Account}:db-proxy:\${DbProxyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">proxy-endpoint</a>	arn:\${Partition}:rds:\${Region}:\${Account}:db-proxy-endpoint:\${DbProxyEndpointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ri</a>	arn:\${Partition}:rds:\${Region}:\${Account}:ri:\${ReservedDbInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:ri-tag/\${TagKey}</a>
<a href="#">secgrp</a>	arn:\${Partition}:rds:\${Region}:\${Account}:secgrp:\${SecurityGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:secgrp-tag/\${TagKey}</a>
<a href="#">snapshot</a>	arn:\${Partition}:rds:\${Region}:\${Account}:snapshot:\${SnapshotName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rds:snapshot-tag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">subgrp</a>	arn:\${Partition}:rds:\${Region}:\${Account}:subgrp:\${SubnetGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rds:subgrp-tag/\${TagKey}</a>
<a href="#">target-group</a>	arn:\${Partition}:rds:\${Region}:\${Account}:target-group:\${TargetGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cev</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cev:\${Engine}/\${EngineVersion}/\${CustomDbEngineVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deployment</a>	arn:\${Partition}:rds:\${Region}:\${Account}:deployment:\${BlueGreenDeploymentIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">integration</a>	arn:\${Partition}:rds:\${Region}:\${Account}:integration:\${IntegrationIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">snapshot-tenant-database</a>	arn:\${Partition}:rds:\${Region}:\${Account}:snapshot-tenant-database:\${SnapshotName}:\${TenantResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tenant-database</a>	arn:\${Partition}:rds:\${Region}:\${Account}:tenant-database:\${TenantResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon RDS

Amazon RDS defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the set of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the set of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the set of tag keys in the request	ArrayOfString
<a href="#">rds:BackupTarget</a>	Filters access by the type of backup target. One of: region, outposts	String
<a href="#">rds:CopyOptionGroup</a>	Filters access by the value that specifies whether the CopyDBSnapshot action requires copying the DB option group	Bool
<a href="#">rds:DatabaseClass</a>	Filters access by the type of DB instance class	String
<a href="#">rds:DatabaseEngine</a>	Filters access by the database engine. For possible values refer to the engine parameter in CreateDBInstance API	String
<a href="#">rds:DatabaseName</a>	Filters access by the user-defined name of the database on the DB instance	String
<a href="#">rds:EndpointType</a>	Filters access by the type of the endpoint. One of: READER, WRITER, CUSTOM	String
<a href="#">rds:ManageMasterUserPassword</a>	Filters access by the value that specifies whether RDS manages master user password in AWS Secrets Manager for the DB instance or cluster	Bool

Condition keys	Description	Type
<a href="#">rds:MultiAz</a>	Filters access by the value that specifies whether the DB instance runs in multiple Availability Zones. To indicate that the DB instance is using Multi-AZ, specify true	Bool
<a href="#">rds:Piops</a>	Filters access by the value that contains the number of Provisioned IOPS (PIOPS) that the instance supports. To indicate a DB instance that does not have PIOPS enabled, specify 0	Numeric
<a href="#">rds:PubliclyAccessible</a>	Filters access by the value that specifies whether the DB Instance or DB ShardGroup is publicly accessible	Bool
<a href="#">rds:StorageEncrypted</a>	Filters access by the value that specifies whether the DB instance storage should be encrypted. To enforce storage encryption, specify true	Bool
<a href="#">rds:StorageSize</a>	Filters access by the storage volume size (in GB)	Numeric
<a href="#">rds:TagsFromRequest</a>	Filters access for rds:AddTagsToResource based on whether tags are explicitly specified in the Tags or TagSpecification request parameters. Evaluates to true when tags are provided in these parameters. Evaluates as false when tags are implicitly inherited from source resources	Bool
<a href="#">rds:TenantDatabaseName</a>	Filters access by the tenant database name in CreateTenantDatabase and by the new tenant database name in ModifyTenantDatabase	String
<a href="#">rds:Vpc</a>	Filters access by the value that specifies whether the DB instance runs in an Amazon Virtual Private Cloud (Amazon VPC). To indicate that the DB instance runs in an Amazon VPC, specify true	Bool
<a href="#">rds:cluster-pg-tag/\${TagKey}</a>	Filters access by the tag attached to a DB cluster parameter group	String

Condition keys	Description	Type
<a href="#"><u>rds:cluster-snapshot-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB cluster snapshot	String
<a href="#"><u>rds:cluster-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB cluster	String
<a href="#"><u>rds:db-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB instance	String
<a href="#"><u>rds:es-tag/\${TagKey}</u></a>	Filters access by the tag attached to an event subscription	String
<a href="#"><u>rds:og-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB option group	String
<a href="#"><u>rds:pg-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB parameter group	String
<a href="#"><u>rds:req-tag/\${TagKey}</u></a>	Filters access by the set of tag keys and values that can be used to tag a resource	String
<a href="#"><u>rds:ri-tag/\${TagKey}</u></a>	Filters access by the tag attached to a reserved DB instance	String
<a href="#"><u>rds:secgrp-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB security group	String
<a href="#"><u>rds:snapshot-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB snapshot	String
<a href="#"><u>rds:subgrp-tag/\${TagKey}</u></a>	Filters access by the tag attached to a DB subnet group	String

## Actions, resources, and condition keys for Amazon RDS Data API

Amazon RDS Data API (service prefix: `rds-data`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon RDS Data API](#)
- [Resource types defined by Amazon RDS Data API](#)
- [Condition keys for Amazon RDS Data API](#)

### Actions defined by Amazon RDS Data API

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchExecuteStatement</a>	Grants permission to run a batch SQL statement over an array of data	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BeginTransaction</a>	Grants permission to start a SQL transaction	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CommitTransaction</a>	Grants permission to end a SQL transaction started with the BeginTransaction operation and commits the changes	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	rds-data:BeginTransaction
<a href="#">ExecuteSql</a>	Grants permission to run one or more SQL statements. This operation is deprecated. Use the BatchExecuteStatement or ExecuteStatement operation	Write	<a href="#">cluster*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ExecuteStatement</a>		Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to run a SQL statement against a database			<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RollbackTransaction</a>	Grants permission to perform a rollback of a transaction. Rolling back a transaction cancels its changes	Write	<a href="#">cluster*</a>		rds-data:BeginTransaction
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon RDS Data API

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:rds:\${Region}:\${Account}:cluster:\${DbClusterInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>

## Condition keys for Amazon RDS Data API

Amazon RDS Data API defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys associated with the resource	ArrayOfString

## Actions, resources, and condition keys for Amazon RDS IAM Authentication

Amazon RDS IAM Authentication (service prefix: `rds-db`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon RDS IAM Authentication](#)
- [Resource types defined by Amazon RDS IAM Authentication](#)
- [Condition keys for Amazon RDS IAM Authentication](#)

## Actions defined by Amazon RDS IAM Authentication

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">connect</a>	Allows IAM role or user to connect to RDS database	Permissions management	<a href="#">db-user*</a>		

## Resource types defined by Amazon RDS IAM Authentication

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">db-user</a>	arn:\${Partition}:rds-db:\${Region}:\${Account}:dbuser:\${DbiResourceId}/\${DbUserName}	

## Condition keys for Amazon RDS IAM Authentication

RDS IAM Authentication has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Recycle Bin

AWS Recycle Bin (service prefix: `rbn`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Recycle Bin](#)
- [Resource types defined by AWS Recycle Bin](#)
- [Condition keys for AWS Recycle Bin](#)

## Actions defined by AWS Recycle Bin

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRule</a>	Grants permission to create a Recycle Bin retention rule	Write	<a href="#">rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rbin:Request/ResourceType</a>	
<a href="#">DeleteRule</a>	Grants permission to delete a Recycle Bin retention rule	Write	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rbin:Attribute/SourceType</a>	
<a href="#">GetRule</a>	Grants permission to get detailed information about a Recycle Bin retention rule	Read	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRules</a>	Grants permission to list the Recycle Bin retention rules in the Region	Read		<a href="#">rbin:Attribute/ResourceType</a>  <a href="#">rbin:Request/ResourceType</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list the tags associated with a resource	Read	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rbin:Attribute/ResourceType</a>	
<a href="#">LockRule</a>	Grants permission to lock an existing Recycle Bin retention rule	Write	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rbin:Attribute/ResourceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add or update tags of a resource	Tagging	<a href="#">rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">rbin:Attribute/ResourceType</a>	
<a href="#">UnlockRule</a>	Grants permission to unlock an existing Recycle Bin retention rule	Write	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rbin:Attribute/ResourceType</a>	
<a href="#">UntagResource</a>		Tagging	<a href="#">rule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to remove tags associated with a resource			<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">rbin:Attribute/ResourceType</a>	
<a href="#">UpdateRule</a>	Grants permission to update an existing Recycle Bin retention rule	Write	<a href="#">rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rbin:Attribute/ResourceType</a>	

## Resource types defined by AWS Recycle Bin

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">rule</a>	arn:\${Partition}:rbin:\${Region}:\${Account}:rule/\${ResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Recycle Bin

AWS Recycle Bin defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString
<a href="#">rbin:Attribute/ResourceType</a>	Filters access by the resource type of the existing rule	String
<a href="#">rbin:Request/ResourceType</a>	Filters access by the resource type in a request	String

## Actions, resources, and condition keys for Amazon Redshift

Amazon Redshift (service prefix: `redshift`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Redshift](#)
- [Resource types defined by Amazon Redshift](#)
- [Condition keys for Amazon Redshift](#)

## Actions defined by Amazon Redshift

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptReservedNodeExchange</a>	Grants permission to exchange a DC1 reserved node for a DC2 reserved node with no changes to the configuration	Write			
<a href="#">AddPartner</a>	Grants permission to add a partner integration to a cluster	Write			
<a href="#">AssociateDataShareConsumer</a>	Grants permission to associate a consumer to a datashare	Write	<a href="#">datashare</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">redshift:ConsumerArn</a>  <a href="#">redshift:AllowWrites</a>	
<a href="#">AuthorizeClusterSecurityGroupIngress</a>	Grants permission to add an inbound (ingress) rule to an Amazon Redshift security group	Write	<a href="#">securitygroup*</a>  <a href="#">securitygroupingress-ec2securitygroup*</a>		
<a href="#">AuthorizeDataShare</a>	Grants permission to authorize the specified datashare consumer to consume a datashare	Permissions management	<a href="#">datashare*</a>	<a href="#">redshift:ConsumerIdentifier</a>  <a href="#">redshift:AllowWrites</a>	
<a href="#">AuthorizeEndpointAccess</a>	Grants permission to authorize endpoint related activities for redshift-managed vpc endpoint	Permissions management			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AuthorizeInboundIntegration</a> [permission only]	Grants permission to Amazon Redshift to continuously validate that the target data warehouse can receive data replicated from the source ARN	Write	<a href="#">integration*</a>		
<a href="#">AuthorizeSnapshotAccess</a>	Grants permission to the specified AWS account to restore a snapshot	Permissions management	<a href="#">snapshot*</a>		
<a href="#">BatchDeleteClusterSnapshots</a>	Grants permission to delete snapshots in a batch of size upto 100	Write	<a href="#">snapshot*</a>		
<a href="#">BatchModifyClusterSnapshots</a>	Grants permission to modify settings for a list of snapshots	Write	<a href="#">snapshot*</a>		
<a href="#">CancelQuery</a> [permission only]	Grants permission to cancel a query through the Amazon Redshift console	Write			
<a href="#">CancelQuerySession</a> [permission only]	Grants permission to see queries in the Amazon Redshift console	Write			
<a href="#">CancelResize</a>	Grants permission to cancel a resize operation	Write	<a href="#">cluster*</a>		
<a href="#">CopyClusterSnapshot</a>	Grants permission to copy a cluster snapshot	Write	<a href="#">snapshot*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAuthenticationProfile</a>	Grants permission to create an Amazon Redshift authentication profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create a cluster	Write	<a href="#">cluster*</a>		kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey kms:RetireGrant secretsmanager:CreateSecret secretsmanager>DeleteSecret secretsmanager:DescribeSecret secretsmanager:GetRandomPassword

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:RotateSecret  secretsmanager:TagResource  secretsmanager:UpdateSecret
<a href="#">CreateClusterParameterGroup</a>	Grants permission to create an Amazon Redshift parameter group	Write	<a href="#">parametergroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateClusterSecurityGroup</a>	Grants permission to create an Amazon Redshift security group	Write	<a href="#">securitygroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateClusterSnapshot</a>	Grants permission to create a manual snapshot of the specified cluster	Write	<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateClusterSubnetGroup</a>	Grants permission to create an Amazon Redshift subnet group	Write	<a href="#">subnetgroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateClusterUser</a>	Grants permission to automatically create the specified Amazon Redshift user if it does not exist	Permissions management	<a href="#">dbuser*</a>	<a href="#">redshift:DbUser</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomDomainAssociation</a>	Grants permission to create a custom domain name for a cluster	Write	<a href="#">cluster*</a>		acm:DescribeCertificate
<a href="#">CreateEndpointAccess</a>	Grants permission to create a redshift-managed vpc endpoint	Write			
<a href="#">CreateEventSubscription</a>	Grants permission to create an Amazon Redshift event notification subscription	Write	<a href="#">eventsdescription*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateHsmClientCertificate</a>	Grants permission to create an HSM client certificate that a cluster uses to connect to an HSM	Write	<a href="#">hsmclientcertificate*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHsmConfiguration</a>	Grants permission to create an HSM configuration that contains information required by a cluster to store and use database encryption keys in a hardware security module (HSM)	Write	<a href="#">hsmconfiguration*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateInboundIntegration</a> [permission only]	Grants permission to the source principal to create an inbound integration for data to be replicated from the source into the target data warehouse	Write			
<a href="#">CreateIntegration</a>	Grants permission to create an Amazon Redshift zero-ETL integration	Write	<a href="#">integration*</a>		kms:CreateGrant  kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">redshift:IntegrationSourceArn</a> <a href="#">redshift:IntegrationTargetArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateQev2IdcApplication</a> [permission only]	Grants permission to create a qev2 idc application	Write			sso:CreateApplication  sso:PutApplicationAccessScope  sso:PutApplicationAuthenticationMethod  sso:PutApplicationGrant



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRedshiftIdcApplication</a>	Grants permission to create a redshift idc application	Write			sso:CreateApplication sso:PutApplicationAccessScope sso:PutApplicationAuthenticationMethod sso:PutApplicationGrant
<a href="#">CreateSavedQuery</a> [permission only]	Grants permission to create saved SQL queries through the Amazon Redshift console	Write			
<a href="#">CreateScheduledAction</a>	Grants permission to create an Amazon Redshift scheduled action	Write			
<a href="#">CreateSnapshotCopyGrant</a>	Grants permission to create a snapshot copy grant and encrypt copied snapshots in a destination AWS Region	Permissions management	<a href="#">snapshotcopygrant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSnapshotSchedule</a>	Grants permission to create a snapshot schedule	Write	<a href="#">snapshotschedule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTags</a>	Grants permission to add one or more tags to a specified resource	Tagging	<a href="#">cluster</a> <a href="#">eventsdescription</a> <a href="#">hsmclientcertificate</a> <a href="#">hsmconfiguration</a> <a href="#">integration</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">parameter group</a>		
			<a href="#">security group</a>		
			<a href="#">security group ingress-cidr</a>		
			<a href="#">security group ingress-ec2securitygroup</a>		
			<a href="#">snapshot</a>		
			<a href="#">snapshot copygrant</a>		
			<a href="#">snapshots schedule</a>		
			<a href="#">subnetgroup</a>		
			<a href="#">usagelimit</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUsageLimit</a>	Grants permission to create a usage limit	Write	<a href="#">usagelimit*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeauthorizeDataShare</a>	Grants permission to remove permission from the specified datashare consumer to consume a datashare	Permissions management	<a href="#">datashare*</a>	<a href="#">redshift:ConsumerIdentifier</a>	
<a href="#">DeleteAuthenticationProfile</a>	Grants permission to delete an Amazon Redshift authentication profile	Write			
<a href="#">DeleteCluster</a>	Grants permission to delete a previously provisioned cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteClusterParameterGroup</a>	Grants permission to delete an Amazon Redshift parameter group	Write	<a href="#">parameter group*</a>		
<a href="#">DeleteClusterSecurityGroup</a>	Grants permission to delete an Amazon Redshift security group	Write	<a href="#">security group*</a>		
<a href="#">DeleteClusterSnapshot</a>	Grants permission to delete a manual snapshot	Write	<a href="#">snapshot*</a>		
<a href="#">DeleteClusterSubnetGroup</a>	Grants permission to delete a cluster subnet group	Write	<a href="#">subnetgroup*</a>		
<a href="#">DeleteCustomDomainAssociation</a>	Grants permission to delete a custom domain name for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">DeleteEndpointAccess</a>	Grants permission to delete a redshift-managed vpc endpoint	Write			
<a href="#">DeleteEventSubscription</a>	Grants permission to delete an Amazon Redshift event notification subscription	Write	<a href="#">eventsubscription*</a>		
<a href="#">DeleteHsmClientCertificate</a>	Grants permission to delete an HSM client certificate	Write	<a href="#">hsmclientcertificate*</a>		
<a href="#">DeleteHsmConfiguration</a>	Grants permission to delete an Amazon Redshift HSM configuration	Write	<a href="#">hsmconfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteIntegration</a>	Grants permission to delete an Amazon Redshift zero-ETL integration	Write	<a href="#">integration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeletePartner</a>	Grants permission to delete a partner integration from a cluster	Write			
<a href="#">DeleteQev2IdcApplication</a> [permission only]	Grants permission to delete a qev2 idc application	Write	<a href="#">qev2idcapplication*</a>		ss0:DeleteApplication
<a href="#">DeleteRedshiftIdcApplication</a>	Grants permission to delete a redshift idc application	Write	<a href="#">redshiftidcapplication*</a>		ss0:DeleteApplication
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the resource policy for a specified resource	Permissions management	<a href="#">namespace*</a>		
<a href="#">DeleteSavedQueries</a> [permission only]	Grants permission to delete saved SQL queries through the Amazon Redshift console	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteScheduledAction</a>	Grants permission to delete an Amazon Redshift scheduled action	Write			
<a href="#">DeleteSnapshotCopyGrant</a>	Grants permission to delete a snapshot copy grant	Write	<a href="#">snapshotcopygrant*</a>		
<a href="#">DeleteSnapshotSchedule</a>	Grants permission to delete a snapshot schedule	Write	<a href="#">snapshotschedule*</a>		
<a href="#">DeleteTags</a>	Grants permission to delete a tag or tags from a resource	Tagging	<a href="#">cluster</a>		
			<a href="#">eventsubscription</a>		
			<a href="#">hsmclientcertificate</a>		
			<a href="#">hsmconfiguration</a>		
			<a href="#">integration</a>		
			<a href="#">parametergroup</a>		
			<a href="#">securitygroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">securitygroupingress-cidr</a>		
			<a href="#">securitygroupingress-ec2securitygroup</a>		
			<a href="#">snapshot</a>		
			<a href="#">snapshotcopygrant</a>		
			<a href="#">snapshotschedule</a>		
			<a href="#">subnetgroup</a>		
			<a href="#">usagelimit</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteUsageLimit</a>	Grants permission to delete a usage limit	Write	<a href="#">usagelimit*</a>		
<a href="#">DeregisterNamespace</a>	Grants permission to deregister the specified namespace from a consumer	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAccountAttributes</a>	Grants permission to describe attributes attached to the specified AWS account	Read			
<a href="#">DescribeAuthenticationProfiles</a>	Grants permission to describe created Amazon Redshift authentication profiles	Read			
<a href="#">DescribeAutonomicsDenylist</a> [permission only]	Grants permission to describe the list of resources that are denylisted from global autonomics decisions for a specified cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeClusterRevisions</a>	Grants permission to describe database revisions for a cluster	List			
<a href="#">DescribeClusterParameterGroups</a>	Grants permission to describe Amazon Redshift parameter groups, including parameter groups you created and the default parameter group	Read			
<a href="#">DescribeClusterParameters</a>	Grants permission to describe parameters contained within an Amazon Redshift parameter group	Read	<a href="#">parameter group*</a>		
<a href="#">DescribeClusterSecurityGroups</a>	Grants permission to describe Amazon Redshift security groups	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClusterSnapshots</a>	Grants permission to describe one or more snapshot objects, which contain metadata about your cluster snapshots	Read			
<a href="#">DescribeClusterSubnetGroups</a>	Grants permission to describe one or more cluster subnet group objects, which contain metadata about your cluster subnet groups	Read			
<a href="#">DescribeClusterTracks</a>	Grants permission to describe available maintenance tracks	List			
<a href="#">DescribeClusterVersions</a>	Grants permission to describe available Amazon Redshift cluster versions	Read			
<a href="#">DescribeClusters</a>	Grants permission to describe properties of provisioned clusters	List	<a href="#">cluster</a>		
<a href="#">DescribeCustomDomainAssociations</a>	Grants permission to describe custom domain names for a cluster	List			
<a href="#">DescribeDataShares</a>	Grants permission to describe datashares created and consumed by your clusters	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDataSharesForConsumer</a>	Grants permission to describe only datashares consumed by your clusters	Read			
<a href="#">DescribeDataSharesForProducer</a>	Grants permission to describe only datashares created by your clusters	Read			
<a href="#">DescribeDefaultClusterParameters</a>	Grants permission to describe parameter settings for a parameter group family	Read			
<a href="#">DescribeEndpointAccess</a>	Grants permission to describe redshift-managed vpc endpoints	Read			
<a href="#">DescribeEndpointAuthorization</a>	Grants permission to authorize describe activity for redshift-managed vpc endpoint	List			
<a href="#">DescribeEventCategories</a>	Grants permission to describe event categories for all event source types, or for a specified source type	Read			
<a href="#">DescribeEventSubscriptions</a>	Grants permission to describe Amazon Redshift event notification subscriptions for the specified AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEvents</a>	Grants permission to describe events related to clusters, security groups, snapshots, and parameter groups for the past 14 days	List			
<a href="#">DescribeHsmClientCertificates</a>	Grants permission to describe HSM client certificates	Read			
<a href="#">DescribeHsmConfigurations</a>	Grants permission to describe Amazon Redshift HSM configurations	Read			
<a href="#">DescribeInboundIntegrations</a>	Grants permission to list the inbound integrations	List		<a href="#">redshift:InboundIntegrationArn</a>	
<a href="#">DescribeIntegrations</a>	Grants permission to describe an Amazon Redshift zero-ETL integration	List	<a href="#">integration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeLoggingStatus</a>	Grants permission to describe whether information, such as queries and connection attempts, is being logged for a cluster	Read	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeNodeConfigurationOptions</a>	Grants permission to describe properties of possible node configurations such as node type, number of nodes, and disk usage for the specified action type	List			
<a href="#">DescribeOrderableClusterOptions</a>	Grants permission to describe orderable cluster options	Read			
<a href="#">DescribePartners</a>	Grants permission to retrieve information about the partner integrations defined for a cluster	Read			
<a href="#">DescribeQev2IdcApplications</a> [permission only]	Grants permission to describe qev2 idc applications	List			
<a href="#">DescribeQuery</a> [permission only]	Grants permission to describe a query through the Amazon Redshift console	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeRedshiftIdcApplications</a>	Grants permission to describe redshift idc applications	List			sso:GetApplicationGrant  sso:ListApplicationAccessScopes
<a href="#">DescribeReservedNodeExchangeStatus</a>	Grants permission to describe exchange status details and associated metadata for a reserved-node exchange. Statuses include such values as in progress and requested	Read			
<a href="#">DescribeReservedNodeOfferings</a>	Grants permission to describe available reserved node offerings by Amazon Redshift	Read			
<a href="#">DescribeReservedNodes</a>	Grants permission to describe the reserved nodes	Read			
<a href="#">DescribeResize</a>	Grants permission to describe the last resize operation for a cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeSavedQueries</a> [permission only]	Grants permission to describe saved queries through the Amazon Redshift console	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeScheduledActions</a>	Grants permission to describe created Amazon Redshift scheduled actions	Read			
<a href="#">DescribeSnapshotCopyGrants</a>	Grants permission to describe snapshot copy grants owned by the specified AWS account in the destination AWS Region	Read			
<a href="#">DescribeSnapshotSchedules</a>	Grants permission to describe snapshot schedules	Read	<a href="#">snapshotschedule*</a>		
<a href="#">DescribeStorage</a>	Grants permission to describe account level backups storage size and provisional storage	Read			
<a href="#">DescribeTable</a> [permission only]	Grants permission to describe a table through the Amazon Redshift console	Read			
<a href="#">DescribeTableRestoreStatus</a>	Grants permission to describe status of one or more table restore requests made using the RestoreTableFromClusterSnapshot API action	Read			
<a href="#">DescribeTags</a>	Grants permission to describe tags	Read	<a href="#">cluster</a> <a href="#">eventsubscription</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">hsmclientcertificate</a>		
			<a href="#">hsmconfiguration</a>		
			<a href="#">integration</a>		
			<a href="#">parametergroup</a>		
			<a href="#">securitygroup</a>		
			<a href="#">securitygroupingress-cidr</a>		
			<a href="#">securitygroupingress-ec2securitygroup</a>		
			<a href="#">snapshot</a>		
			<a href="#">snapshotcopygrant</a>		
			<a href="#">snapshotschedule</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">subnetgroup</a>		
			<a href="#">up</a>		
			<a href="#">usagelimit</a>		
<a href="#">DescribeUsageLimits</a>	Grants permission to describe usage limits	Read	<a href="#">usagelimit*</a>		
<a href="#">DisableLogging</a>	Grants permission to disable logging information, such as queries and connection attempts, for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">DisableSnapshotCopy</a>	Grants permission to disable the automatic copy of snapshots for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">DisassociateDataShareConsumer</a>	Grants permission to disassociate a consumer from a datashare	Write	<a href="#">datashare*</a>		
				<a href="#">redshift:ConsumerArn</a>	
<a href="#">EnableLogging</a>	Grants permission to enable logging information, such as queries and connection attempts, for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">EnableSnapshotCopy</a>	Grants permission to enable the automatic copy of snapshots for a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExecuteQuery</a> [permission only]	Grants permission to execute a query through the Amazon Redshift console	Write			
<a href="#">FailoverPrimaryCompute</a>	Grants permission to failover the primary compute of an Multi-AZ cluster to another AZ	Write	<a href="#">cluster*</a>		
<a href="#">FetchResults</a> [permission only]	Grants permission to fetch query results through the Amazon Redshift console	Read			
<a href="#">GetClusterCredentials</a>	Grants permission to get temporary credentials to access an Amazon Redshift database by the specified AWS account	Write	<a href="#">dbuser*</a> <a href="#">dbname</a>	<a href="#">redshift:DbName</a> <a href="#">redshift:DbUser</a> <a href="#">redshift:DurationSeconds</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetClusterCredentialsWithIAM</a>	Grants permission to get enhanced temporary credentials to access an Amazon Redshift database by the specified AWS account	Write	<a href="#">dbname</a>	<a href="#">redshift:DbName</a> <a href="#">redshift:DurationSeconds</a>	
<a href="#">GetIdentityCenterAuthToken</a>	Grants permission to get an authorized token for Identity Center users to access Redshift clusters	Read	<a href="#">cluster*</a>		
<a href="#">GetReservedNodeExchangeConfigurationOptions</a>	Grants permission to get the configuration options for the reserved-node exchange	Read			
<a href="#">GetReservedNodeExchangeOfferings</a>	Grants permission to get an array of DC2 ReservedNodeOfferings that matches the payment type, term, and usage price of the given DC1 reserved node	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy for a specified resource	Read	<a href="#">namespace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">JoinGroup</a>	Grants permission to join the specified Amazon Redshift group	Permissions management	<a href="#">dbgroup*</a>		
<a href="#">ListDatabases</a> [permission only]	Grants permission to list databases through the Amazon Redshift console	List			
<a href="#">ListRecommendations</a>	Grants permission to list Advisor recommendations	List			
<a href="#">ListSavedQueries</a> [permission only]	Grants permission to list saved queries through the Amazon Redshift console	List			
<a href="#">ListSchemas</a> [permission only]	Grants permission to list schemas through the Amazon Redshift console	List			
<a href="#">ListTables</a> [permission only]	Grants permission to list tables through the Amazon Redshift console	List			
<a href="#">ModifyAquaConfiguration</a>	Grants permission to modify the AQUA configuration of a cluster	Write	<a href="#">cluster*</a>		
<a href="#">ModifyAuthenticationProfile</a>	Grants permission to modify an existing Amazon Redshift authentication profile	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyAutonomicsDenylist</a> [permission only]	Grants permission to add or remove resources from the global autonomics denylist for a specified cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyCluster</a>	Grants permission to modify the settings of a cluster	Write	<a href="#">cluster*</a>		acm:DescribeCertificate  kms:CreateGrant  kms:Decrypt  kms:DescribeKey  kms:GenerateDataKey  kms:RetireGrant  secretsmanager:CreateSecret  secretsmanager:DeleteSecret  secretsmanager:DescribeSecret

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:GetRandomPassword  secretsmanager:RotateSecret  secretsmanager:TagResource  secretsmanager:UpdateSecret
<a href="#">ModifyClusterDatabaseRevision</a>	Grants permission to modify the database revision of a cluster	Write	<a href="#">cluster*</a>		
<a href="#">ModifyClusterIAMRoles</a>	Grants permission to modify the list of AWS Identity and Access Management (IAM) roles that can be used by a cluster to access other AWS services	Permissions management	<a href="#">cluster*</a>		
<a href="#">ModifyClusterMaintenance</a>	Grants permission to modify the maintenance settings of a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyClusterParameterGroup</a>	Grants permission to modify the parameters of a parameter group	Write	<a href="#">parameter group*</a>		
<a href="#">ModifyClusterSnapshot</a>	Grants permission to modify the settings of a snapshot	Write	<a href="#">snapshot*</a>		
<a href="#">ModifyClusterSnapshotSchedule</a>	Grants permission to modify a snapshot schedule for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">ModifyClusterSubnetGroup</a>	Grants permission to modify a cluster subnet group to include the specified list of VPC subnets	Write	<a href="#">subnetgroup*</a>		
<a href="#">ModifyCustomDomainAssociation</a>	Grants permission to modify a custom domain name for a cluster	Write	<a href="#">cluster*</a>		acm:DescribeCertificate
<a href="#">ModifyEndpointAccess</a>	Grants permission to modify a redshift-managed vpc endpoint	Write			
<a href="#">ModifyEventSubscription</a>	Grants permission to modify an existing Amazon Redshift event notification subscription	Write	<a href="#">eventsubscription*</a>		
<a href="#">ModifyIntegration</a>	Grants permission to modify an Amazon Redshift zero-ETL integration	Write	<a href="#">integration*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyQev2IdcApplication</a> [permission only]	Grants permission to modify a qev2 idc application	Write	<a href="#">qev2idcapplication*</a>		sso:UpdateApplication

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyRedshiftIdcApplication</a>	Grants permission to modify a redshift idc application	Write	<a href="#">redshiftidcapplication*</a>		sso:DeleteApplicationAccessScope sso:DeleteApplicationGrant sso:GetApplicationGrant sso:ListApplicationAccessScopes sso:PutApplicationAccessScope sso:PutApplicationGrant sso:UpdateApplication

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifySavedQuery</a> [permission only]	Grants permission to modify an existing saved query through the Amazon Redshift console	Write			
<a href="#">ModifyScheduledAction</a>	Grants permission to modify an existing Amazon Redshift scheduled action	Write			
<a href="#">ModifySnapshotCopyRetentionPeriod</a>	Grants permission to modify the number of days to retain snapshots in the destination AWS Region after they are copied from the source AWS Region	Write	<a href="#">cluster*</a>		
<a href="#">ModifySnapshotSchedule</a>	Grants permission to modify a snapshot schedule	Write	<a href="#">snapshotschedule*</a>		
<a href="#">ModifyUsageLimit</a>	Grants permission to modify a usage limit	Write	<a href="#">usagelimit*</a>		
<a href="#">PauseCluster</a>	Grants permission to pause a cluster	Write	<a href="#">cluster*</a>		
<a href="#">PurchaseReservedNodeOffering</a>	Grants permission to purchase a reserved node	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a>	Grants permission to update the resource policy for a specified resource	Permissions management	<a href="#">namespace*</a>		
<a href="#">RebootCluster</a>	Grants permission to reboot a cluster	Write	<a href="#">cluster*</a>		
<a href="#">RegisterNamespace</a>	Grants permission to register the specified namespace to a consumer	Write			
<a href="#">RejectDataShare</a>	Grants permission to decline a datashare shared from another account	Permissions management	<a href="#">datashare*</a>		
<a href="#">ResetClusterParameterGroup</a>	Grants permission to set one or more parameters of a parameter group to their default values and set the source values of the parameters to "engine-default"	Write	<a href="#">parametergroup*</a>		
<a href="#">ResizeCluster</a>	Grants permission to change the size of a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreFromClusterSnapshot</a>	Grants permission to create a cluster from a snapshot	Write	<a href="#">cluster*</a>		kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey kms:RetireGrant secretsmanager:CreateSecret secretsmanager>DeleteSecret secretsmanager:DescribeSecret secretsmanager:GetRandomPassword

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:RotateSecret
					secretsmanager:TagResource
					secretsmanager:UpdateSecret
			<a href="#">snapshot*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">RestoreTableFromClusterSnapshot</a>	Grants permission to create a table from a table in an Amazon Redshift cluster snapshot	Write	<a href="#">cluster*</a>		
			<a href="#">snapshot*</a>		
<a href="#">ResumeCluster</a>	Grants permission to resume a cluster	Write	<a href="#">cluster*</a>		
<a href="#">RevokeClusterSecurityGroupIngress</a>	Grants permission to revoke an ingress rule in an Amazon Redshift security group for a previously authorized IP range or Amazon EC2 security group	Write	<a href="#">securitygroup*</a>		
			<a href="#">securitygroupingress-ec2securitygroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RevokeEndpointAccess</a>	Grants permission to revoke access for endpoint related activities for redshift-managed vpc endpoint	Permissions management			
<a href="#">RevokeSnapshotAccess</a>	Grants permission to revoke access from the specified AWS account to restore a snapshot	Permissions management	<a href="#">snapshot*</a>		
<a href="#">RotateEncryptionKey</a>	Grants permission to rotate an encryption key for a cluster	Write	<a href="#">cluster*</a>		
<a href="#">UpdatePartnerStatus</a>	Grants permission to update the status of a partner integration	Write			
<a href="#">ViewQueriesFromConsole</a> [permission only]	Grants permission to view query results through the Amazon Redshift console	List			
<a href="#">ViewQueriesInConsole</a> [permission only]	Grants permission to terminate running queries and loads through the Amazon Redshift console	List			

## Resource types defined by Amazon Redshift

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:cluster:\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">datashare</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:datashare:\${ProducerClusterNamespace}/\${DataShareName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dbgroup</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:dbgroup:\${ClusterName}/\${DbGroup}	
<a href="#">dbname</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:dbname:\${ClusterName}/\${DbName}	
<a href="#">dbuser</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:dbuser:\${ClusterName}/\${DbUser}	
<a href="#">eventscription</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:eventscription:\${EventSubscriptionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">hsmclientcertificate</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:hsmclientcertificate:\${HSMClientCertificateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">hsmconfiguration</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:hsmconfiguration:\${HSMConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">integration</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:integration:\${IntegrationIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">namespace</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:namespace:\${ClusterNamespace}	
<a href="#">parameter group</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:parametergroup:\${ParameterGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">security group</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:securitygroup:\${SecurityGroupName}/ec2securitygroup/\${Owner}/\${Ec2SecurityGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">security group ingress-cidr</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:securitygroupingress:\${SecurityGroupName}/cidrip/\${IpRange}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">security group ingress-ec2securitygroup</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:securitygroupingress:\${SecurityGroupName}/ec2securitygroup/\${Owner}/\${Ece2SecuritygroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">snapshot</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:snapshot:\${ClusterName}/\${SnapshotName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">snapshot copygrant</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:snapshotcopygrant:\${SnapshotCopyGrantName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">snapshotschedule</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:snapshotschedule:\${ScheduleIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subnetgroup</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:subnetgroup:\${SubnetGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">usagelimit</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:usagelimit:\${UsageLimitId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">redshiftdcapplication</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:redshiftidcapplication:\${RedshiftIdcApplicationId}	
<a href="#">qev2idcapplication</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:qev2idcapplication:\${Qev2IdcApplicationId}	

## Condition keys for Amazon Redshift

Amazon Redshift defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the allowed set of values for each of the tags	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of mandatory tags in the request	ArrayOfString
<a href="#">redshift:AllowWrites</a>	Filters access by the allowWrites input parameter	Bool
<a href="#">redshift:ConsumerArn</a>	Filters access by the datashare consumer arn	ARN
<a href="#">redshift:ConsumerIdentifier</a>	Filters access by the datashare consumer	String
<a href="#">redshift:DbName</a>	Filters access by the database name	String
<a href="#">redshift:DbUser</a>	Filters access by the database user name	String
<a href="#">redshift:DurationSeconds</a>	Filters access by the number of seconds until a temporary credential set expires	String
<a href="#">redshift:InboundIntegrationArn</a>	Filters access by the ARN of an inbound zero-ETL Integration resource	ARN
<a href="#">redshift:IntegrationSourceArn</a>	Filters access by the ARN of a zero-ETL Integration source	ARN
<a href="#">redshift:IntegrationTargetArn</a>	Filters access by the ARN of a zero-ETL Integration target	ARN

## Actions, resources, and condition keys for Amazon Redshift Data API

Amazon Redshift Data API (service prefix: `redshift-data`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Redshift Data API](#)
- [Resource types defined by Amazon Redshift Data API](#)
- [Condition keys for Amazon Redshift Data API](#)

### Actions defined by Amazon Redshift Data API

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchExecuteStatement</a>	Grants permission to execute multiple queries under a single connection	Write	<a href="#">cluster</a> <a href="#">workgroup</a>	<a href="#">redshift-data:session-owner-iam-user-id</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">redshift-data:glue-catalog-arn</a>	
<a href="#">CancelStatement</a>	Grants permission to cancel a running query	Write		<a href="#">redshift-data:statement-owner-iam-userid</a>	
<a href="#">DescribeStatement</a>	Grants permission to retrieve detailed information about a statement execution	Read		<a href="#">redshift-data:statement-owner-iam-userid</a>	
<a href="#">DescribeTable</a>	Grants permission to retrieve metadata about a particular table	Read	<a href="#">cluster*</a>		
			<a href="#">workgroup*</a>		
<a href="#">ExecuteStatement</a>	Grants permission to execute a query	Write	<a href="#">cluster</a>		
			<a href="#">workgroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">redshift-data:session-owner-iam-user-id</a> <a href="#">redshift-data:glue-catalog-arn</a>	
<a href="#">GetStagingBucketLocation</a>	Grants permission to get staging bucket location for a given managed workgroup	Read	<a href="#">managed-workgroup*</a>		
<a href="#">GetStatementResult</a>	Grants permission to fetch the result of a query	Read		<a href="#">redshift-data:statement-owner-iam-user-id</a>	
<a href="#">ListDatabases</a>	Grants permission to list databases for a given cluster	Read	<a href="#">cluster*</a> <a href="#">workgroup*</a>		
<a href="#">ListSchemas</a>	Grants permission to list schemas for a given cluster	Read	<a href="#">cluster*</a> <a href="#">workgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListState ments</a>	Grants permission to list queries for a given principal	List		<a href="#">redshift- data:stat- ement- owner- iam-us- erid</a>	
<a href="#">ListTables</a>	Grants permission to list tables for a given cluster	List	<a href="#">cluster*</a>  <a href="#">workgroup</a> * -		

## Resource types defined by Amazon Redshift Data API

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:redshift:\${Region}:\${Account}:cluster:\${ClusterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workgroup</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:workgroup/\${WorkgroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">managed-workgroup</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:managed-workgroup/\${ManagedWorkgroupId}	

## Condition keys for Amazon Redshift Data API

Amazon Redshift Data API defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">redshift-data:glue-catalog-arn</a>	Filters access by glue catalog arn	ARN
<a href="#">redshift-data:session-owner-iam-user-id</a>	Filters access by session owner iam userid	String
<a href="#">redshift-data:statement-owner-iam-user-id</a>	Filters access by statement owner iam userid	String

## Actions, resources, and condition keys for Amazon Redshift Serverless

Amazon Redshift Serverless (service prefix: `redshift-serverless`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Redshift Serverless](#)
- [Resource types defined by Amazon Redshift Serverless](#)
- [Condition keys for Amazon Redshift Serverless](#)

## Actions defined by Amazon Redshift Serverless

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ConvertRecoveryPointToSnapshot</a>	Grants permission to convert a recovery point to a snapshot	Write	<a href="#">recoveryPoint*</a> <a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateCustomDomainAssociation</a>	Grants permission to create a custom domain association in Amazon Redshift Serverless	Write	<a href="#">workgroup*</a>		acm:DescribeCertificate
<a href="#">CreateEndpointAccess</a>	Grants permission to create an Amazon Redshift Serverless managed VPC endpoint	Write	<a href="#">endpointAccess*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNamespace</a>	Grants permission to create an Amazon Redshift Serverless namespace	Write	<a href="#">namespace*</a>		kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey kms:RetireGrant secretsmanager:CreateSecret secretsmanager>DeleteSecret secretsmanager:DescribeSecret secretsmanager:GetRandomPassword

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	secretsmanager:RotateSecret  secretsmanager:TagResource  secretsmanager:UpdateSecret
<a href="#">CreateReservation</a>	Grants permission to purchase a capacity reservation according to a specific reservation offering, for a specified number of RPUs	Write			
<a href="#">CreateScheduledAction</a>	Grants permission to create a scheduled action for a specified Amazon Redshift Serverless namespace	Write	<a href="#">namespace</a> * -		
<a href="#">CreateSnapshot</a>	Grants permission to create a snapshot of all databases in a namespace	Write	<a href="#">namespace</a> * -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">snapshot*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSnapshotCopyConfiguration</a>	Grants permission to create a snapshot copy configuration for a specified Amazon Redshift Serverless namespace	Write	<a href="#">namespace*</a>		
<a href="#">CreateUsageLimit</a>	Grants permission to create a usage limit for a specified Amazon Redshift Serverless usage type	Write			
<a href="#">CreateWorkgroup</a>	Grants permission to create a workgroup in Amazon Redshift Serverless	Write	<a href="#">workgroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCustomDomainAssociation</a>	Grants permission to delete a custom domain association	Write	<a href="#">workgroup*</a>		
<a href="#">DeleteEndpointAccess</a>	Grants permission to delete an Amazon Redshift Serverless managed VPC endpoint	Write	<a href="#">endpointAccess*</a>		
<a href="#">DeleteNamespace</a>	Grants permission to delete a namespace from Amazon Redshift Serverless	Write	<a href="#">namespace*</a>		kms:DescribeKey  kms:RetireGrant  secretsmanager:DeleteSecret  secretsmanager:DescribeSecret
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the specified resource policy	Write			
<a href="#">DeleteScheduledAction</a>	Grants permission to delete a scheduled action from Amazon Redshift Serverless	Write			
<a href="#">DeleteSnapshot</a>	Grants permission to delete a snapshot from Amazon Redshift Serverless	Write	<a href="#">snapshot*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSnapshotCopyConfiguration</a>	Grants permission to delete a snapshot copy configuration for a Amazon Redshift Serverless namespace	Write			
<a href="#">DeleteUsageLimit</a>	Grants permission to delete a usage limit from Amazon Redshift Serverless	Write			
<a href="#">DeleteWorkgroup</a>	Grants permission to delete a workgroup	Write	<a href="#">workgroup</a> * -		
<a href="#">DescribeOnlineTimeCredit</a> [permission only]	Grants permission to see on the Amazon Redshift Serverless console the remaining number of free trial credits and their expiration date	Read			
<a href="#">GetCredentials</a>	Grants permission to get a database user name and temporary password with temporary authorization to log on to Amazon Redshift Serverless	Write	<a href="#">workgroup</a> * -		
<a href="#">GetCustomDomainAssociation</a>	Grants permission to get information about a specific custom domain association	Read	<a href="#">workgroup</a> * -		
<a href="#">GetEndpointAccess</a>	Grants permission to create an Amazon Redshift Serverless managed VPC endpoint	Read	<a href="#">endpointAccess*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdentityCenterAuthToken</a>	Grants permission to get an authorized token for Identity Center users to access Redshift Serverless workgroups	Read	<a href="#">workgroup*</a>		
<a href="#">GetManagedWorkgroup</a>	Grants permission to create a Amazon Redshift Managed Serverless workgroup with the specified configuration settings	Read	<a href="#">managed-workgroup*</a>		
<a href="#">GetNamespace</a>	Grants permission to get information about a namespace in Amazon Redshift Serverless	Read	<a href="#">namespace*</a>		
<a href="#">GetRecoveryPoint</a>	Grants permission to get information about a recovery point	Read	<a href="#">recoveryPoint*</a>		
<a href="#">GetReservation</a>	Grants permission to get a particular reservation object	Read			
<a href="#">GetReservationOffering</a>	Grants permission to get a particular reservation offering	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to get a resource policy	Read			
<a href="#">GetScheduledAction</a>	Grants permission to get information about a specific scheduled action	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSnapshot</a>	Grants permission to get information about a specific snapshot	Read	<a href="#">snapshot*</a>		
<a href="#">GetTableRestoreStatus</a>	Grants permission to get table restore status about a specific snapshot	Read			
<a href="#">GetTrack</a>	Grants permission to get information about a track in Amazon Redshift Serverless	Read			
<a href="#">GetUsageLimit</a>	Grants permission to get information about a usage limit in Amazon Redshift Serverless	Read			
<a href="#">GetWorkgroup</a>	Grants permission to get information about a specific workgroup	Read	<a href="#">workgroup*</a>		
<a href="#">ListAutonomousDenylist</a> [permission only]	Grants permission to list the resources that are denylisted from global autonomous decisions for a specified workgroup	Read	<a href="#">workgroup*</a>		
<a href="#">ListCustomDomainAssociations</a>	Grants permission to list custom domain associations in Amazon Redshift Serverless	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEndpointAccess</a>	Grants permission to list EndpointAccess objects and relevant information	List	<a href="#">endpointAccess*</a>		
<a href="#">ListManagedWorkgroups</a>	Grants permission to list managed workgroups in Amazon Redshift Serverless	List			
<a href="#">ListNamespaces</a>	Grants permission to list namespaces in Amazon Redshift Serverless	List			
<a href="#">ListRecoveryPoints</a>	Grants permission to list an array of recovery points	List	<a href="#">recoveryPoint*</a>		
<a href="#">ListReservationOfferings</a>	Grants permission to list all available capacity reservation offerings	List			
<a href="#">ListReservations</a>	Grants permission to list all reservations	List			
<a href="#">ListScheduledActions</a>	Grants permission to list scheduled actions	List			
<a href="#">ListSnapshotCopyConfigurations</a>	Grants permission to list SnapshotCopyConfiguration objects and relevant information	List	<a href="#">namespace</a>		
<a href="#">ListSnapshots</a>	Grants permission to list snapshots	List	<a href="#">snapshot*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTableRestoreStatus</a>	Grants permission to list table restore status	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags assigned to a resource	List	<a href="#">namespace</a> <a href="#">workgroup</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTracks</a>	Grants permission to list tracks available in Amazon Redshift Serverless	List			
<a href="#">ListUsageLimits</a>	Grants permission to list all usage limits within Amazon Redshift Serverless	List			
<a href="#">ListWorkgroups</a>	Grants permission to list workgroups in Amazon Redshift Serverless	List			
<a href="#">PutResourcePolicy</a>	Grants permission to create or update a resource policy	Write			
<a href="#">RestoreFromRecoveryPoint</a>	Grants permission to restore the data from a recovery point	Write	<a href="#">recoveryPoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreFromSnapshot</a>	Grants permission to restore a namespace from a snapshot	Write	<a href="#">snapshot*</a>		kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey kms:RetireGrant secretsmanager:CreateSecret secretsmanager>DeleteSecret secretsmanager:DescribeSecret secretsmanager:GetRandomPassword

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:RotateSecret
					secretsmanager:TagResource
					secretsmanager:UpdateSecret
<a href="#">RestoreTableFromRecoveryPoint</a>	Grants permission to restore a table from a recovery point	Write	<a href="#">namespace*</a>		
			<a href="#">recoveryPoint*</a>		
<a href="#">RestoreTableFromSnapshot</a>	Grants permission to restore a table from a snapshot	Write	<a href="#">namespace*</a>		
			<a href="#">snapshot*</a>		
<a href="#">TagResource</a>	Grants permission to assign one or more tags to a resource	Tagging	<a href="#">namespace</a>		
			<a href="#">recoveryPoint</a>		
			<a href="#">snapshot</a>		
			<a href="#">workgroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag or set of tags from a resource	Tagging	<a href="#">namespace</a> <a href="#">recoveryPoint</a> <a href="#">snapshot</a> <a href="#">workgroup</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAutonomicsDenylist</a> [permission only]	Grants permission to add or remove resources from the global autonomics denylist for a specified workgroup	Write	<a href="#">workgroup</a> * -		
<a href="#">UpdateCustomDomainAssociation</a>	Grants permission to update a certificate associated with a custom domain	Write	<a href="#">workgroup</a> * -		acm:DescribeCertificate



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEndpointAccess</a>	Grants permission to update an Amazon Redshift Serverless managed VPC endpoint	Write	<a href="#">endpointAccess*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNamespace</a>	Grants permission to update a namespace with the specified configuration settings	Write	<a href="#">namespace*</a>		kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey kms:RetireGrant secretsmanager:CreateSecret secretsmanager>DeleteSecret secretsmanager:DescribeSecret secretsmanager:GetRandomPassword

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					secretsmanager:RotateSecret  secretsmanager:TagResource  secretsmanager:UpdateSecret
<a href="#">UpdateScheduledAction</a>	Grants permission to update a scheduled action	Write			
<a href="#">UpdateSnapshot</a>	Grants permission to update a snapshot	Write	<a href="#">snapshot*</a>		
<a href="#">UpdateSnapshotCopyConfiguration</a>	Grants permission to update a snapshot copy configuration for a Amazon Redshift Serverless namespace	Write			
<a href="#">UpdateUsageLimit</a>	Grants permission to update a usage limit in Amazon Redshift Serverless	Write			
<a href="#">UpdateWorkgroup</a>	Grants permission to update an Amazon Redshift Serverless workgroup with the specified configuration settings	Write	<a href="#">workgroup*</a>		

## Resource types defined by Amazon Redshift Serverless

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">namespace</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:namespace/\${NamespaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">snapshot</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:snapshot/\${SnapshotId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workgroup</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:workgroup/\${WorkgroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">managed-workgroup</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:managed-workgroup/\${ManagedWorkgroupName}	
<a href="#">recoverypoint</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:recoverypoint/\${RecoveryPointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">endpointaccess</a>	arn:\${Partition}:redshift-serverless:\${Region}:\${Account}:managedvpcendpoint/\${EndpointAccessId}	

## Condition keys for Amazon Redshift Serverless

Amazon Redshift Serverless defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">redshift-serverless:endpointAccessId</a>	Filters access by the endpoint access identifier	String
<a href="#">redshift-serverless:managedWorkgroupName</a>	Filters access by the managed workgroup identifier	String
<a href="#">redshift-serverless:namespaceid</a>	Filters access by the namespace identifier	String
<a href="#">redshift-serverless:</a>	Filters access by the recovery point identifier	String

Condition keys	Description	Type
<a href="#">s:recover</a> <a href="#">yPointId</a>		
<a href="#">redshift-serverless:s:snapshotId</a>	Filters access by the snapshot identifier	String
<a href="#">redshift-serverless:s:tableRestoreRequestId</a>	Filters access by the table restore request identifier	String
<a href="#">redshift-serverless:s:workgroupId</a>	Filters access by the workgroup identifier	String

## Actions, resources, and condition keys for Amazon Rekognition

Amazon Rekognition (service prefix: `rekognition`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Rekognition](#)
- [Resource types defined by Amazon Rekognition](#)
- [Condition keys for Amazon Rekognition](#)

## Actions defined by Amazon Rekognition

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateFaces</a>	Grants permission to associate multiple individual faces with a single user	Write	<a href="#">collection*</a>		
<a href="#">CompareFaces</a>	Grants permission to compare faces in the source input image with each face detected in the target input image	Read			
<a href="#">CopyProjectVersion</a>	Grants permission to copy an existing model version to a new model version	Write	<a href="#">project*</a> <a href="#">projectversion*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCollection</a>	Grants permission to create a collection in an AWS Region	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateDataset</a>	Grants permission to create a new Amazon Rekognition Custom Labels dataset	Write	<a href="#">project*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFaceLivenessSession</a>	Grants permission to create a face liveness session	Write			
<a href="#">CreateProject</a>	Grants permission to create an Amazon Rekognition Custom Labels project	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProjectVersion</a>	Grants permission to begin training a new version of a model	Write	<a href="#">project*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStreamProcessor</a>	Grants permission to create an Amazon Rekognition stream processor	Write	<a href="#">collection*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUser</a>	Grants permission to create a new user in a collection using a unique user ID you provide	Write	<a href="#">collection*</a>		
<a href="#">DeleteCollection</a>	Grants permission to delete the specified collection	Write	<a href="#">collection*</a>		
<a href="#">DeleteDataset</a>	Grants permission to delete an existing Amazon Rekognition Custom Labels dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteFaces</a>	Grants permission to delete faces from a collection	Write	<a href="#">collection*</a>		
<a href="#">DeleteProject</a>	Grants permission to delete a project	Write	<a href="#">project*</a>		
<a href="#">DeleteProjectPolicy</a>	Grants permission to delete a resource policy attached to a project	Write	<a href="#">project*</a>		
<a href="#">DeleteProjectVersion</a>	Grants permission to delete a model	Write	<a href="#">projectversion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteStreamProcessor</a>	Grants permission to delete the specified stream processor	Write	<a href="#">streamprocessor*</a>		
<a href="#">DeleteUser</a>	Grants permission to delete a user from a collection based on the provided user ID	Write	<a href="#">collection*</a>		
<a href="#">DescribeCollection</a>	Grants permission to read details about a collection	Read	<a href="#">collection*</a>		
<a href="#">DescribeDataset</a>	Grants permission to describe an Amazon Rekognition Custom Labels dataset	Read	<a href="#">dataset*</a>		
<a href="#">DescribeProjectVersions</a>	Grants permission to list the versions of a model in an Amazon Rekognition Custom Labels project	Read	<a href="#">project*</a>		
<a href="#">DescribeProjects</a>	Grants permission to list Amazon Rekognition Custom Labels projects	Read			
<a href="#">DescribeStreamProcessor</a>	Grants permission to get information about the specified stream processor	Read	<a href="#">streamprocessor*</a>		
<a href="#">DetectCustomLabels</a>	Grants permission to detect custom labels in a supplied image	Read	<a href="#">projectversion*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetectFaces</a>	Grants permission to detect human faces within an image provided as input	Read			
<a href="#">DetectLabels</a>	Grants permission to detect instances of real-world labels within an image provided as input	Read			
<a href="#">DetectModerationLabels</a>	Grants permission to detect moderation labels within the input image	Read	<a href="#">projective</a> <a href="#">rsion</a>		
<a href="#">DetectProtectiveEquipment</a>	Grants permission to detect Personal Protective Equipment in the input image	Read			
<a href="#">DetectText</a>	Grants permission to detect text in the input image and convert it into machine-readable text	Read			
<a href="#">DisassociateFaces</a>	Grants permission to remove the association between a user ID and a face ID	Write	<a href="#">collection*</a>		
<a href="#">DistributeDatasetEntries</a>	Grants permission to distribute the entries in a training dataset across the training dataset and the test dataset for a project	Write	<a href="#">dataset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCelebrityInfo</a>	Grants permission to read the name, and additional information, of a celebrity	Read			
<a href="#">GetCelebrityRecognition</a>	Grants permission to read the celebrity recognition results found in a stored video by an asynchronous celebrity recognition job	Read			
<a href="#">GetContentModeration</a>	Grants permission to read the content moderation analysis results found in a stored video by an asynchronous content moderation job	Read			
<a href="#">GetFaceDetection</a>	Grants permission to read the faces detection results found in a stored video by an asynchronous face detection job	Read			
<a href="#">GetFacelivenessSessionResults</a>	Grants permission to get results of a face liveness session	Read			
<a href="#">GetFaceSearch</a>	Grants permission to read the matching collection faces found in a stored video by an asynchronous face search job	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLabelDetection</a>	Grants permission to read the label detected results found in a stored video by an asynchronous label detection job	Read			
<a href="#">GetMediaAnalysisJob</a>	Grants permission to read the reference to job results in S3 and additional information about a media analysis job	Read			
<a href="#">GetPersonTracking</a>	Grants permission to read the list of persons detected in a stored video by an asynchronous person tracking job	Read			
<a href="#">GetSegmentDetection</a>	Grants permission to get the video segments found in a stored video by an asynchronous segment detection job	Read			
<a href="#">GetTextDetection</a>	Grants permission to get the text found in a stored video by an asynchronous text detection job	Read			
<a href="#">IndexFaces</a>	Grants permission to update an existing collection with faces detected in the input image	Write	<a href="#">collection*</a>		
<a href="#">ListCollections</a>	Grants permission to read the collection Id's in your account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDatasetEntries</a>	Grants permission to list the dataset entries in an existing Amazon Rekognition Custom Labels dataset	Read	<a href="#">dataset*</a>		
<a href="#">ListDatasetLabels</a>	Grants permission to list the labels in a dataset	Read	<a href="#">dataset*</a>		
<a href="#">ListFaces</a>	Grants permission to read metadata for faces in the specified collection	Read	<a href="#">collection*</a>		
<a href="#">ListMediaAnalysisJobs</a>	Grants permission to read the list of media analysis jobs	Read			
<a href="#">ListProjectPolicies</a>	Grants permission to list the resource policies attached to a project	Read	<a href="#">project*</a>		
<a href="#">ListStreamProcessors</a>	Grants permission to get a list of your stream processors	List			
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags associated with a resource	Read	<a href="#">collection</a>		
			<a href="#">dataset</a>		
			<a href="#">project</a>		
			<a href="#">projectversion</a>		
			<a href="#">streamprocessor</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListUsers</a>	Grants permission to list UserIds and the UserStatus	Read	<a href="#">collection*</a>		
<a href="#">PutProjectPolicy</a>	Grants permission to attach a resource policy to a project	Write	<a href="#">project*</a>		
<a href="#">RecognizeCelebrities</a>	Grants permission to detect celebrities in the input image	Read			
<a href="#">SearchFaces</a>	Grants permission to search the specified collection for the supplied face ID	Read	<a href="#">collection*</a>		
<a href="#">SearchFacesByImage</a>	Grants permission to search the specified collection for the largest face in the input image	Read	<a href="#">collection*</a>		
<a href="#">SearchUsers</a>	Grants permission to search the specified collection for user match result with given either face ID or user ID	Read	<a href="#">collection*</a>		
<a href="#">SearchUsersByImage</a>	Grants permission to search the specified collection for user match result by using the largest face in the input image	Read	<a href="#">collection*</a>		
<a href="#">StartCelebrityRecognition</a>	Grants permission to start the asynchronous recognition of celebrities in a stored video	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartContentModeration</a>	Grants permission to start asynchronous detection of explicit or suggestive adult content in a stored video	Write			
<a href="#">StartFaceDetection</a>	Grants permission to start asynchronous detection of faces in a stored video	Write			
<a href="#">StartFaceLivenessSession</a>	Grants permission to start streaming video for a face liveness session	Write			
<a href="#">StartFaceSearch</a>	Grants permission to start an asynchronous search for faces in a collection that match the faces of persons detected in a stored video	Write	<a href="#">collection*</a>		
<a href="#">StartLabelDetection</a>	Grants permission to start asynchronous detection of labels in a stored video	Write			
<a href="#">StartMediaAnalysisJob</a>	Grants permission to start a media analysis job	Write	<a href="#">projection</a>		
<a href="#">StartPersonTracking</a>	Grants permission to start the asynchronous tracking of persons in a stored video	Write			
<a href="#">StartProjectVersion</a>	Grants permission to start running a model version	Write	<a href="#">projection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartSegmentDetection</a>	Grants permission to start the asynchronous detection of segments in a stored video	Write			
<a href="#">StartStreamProcessor</a>	Grants permission to start running a stream processor	Write	<a href="#">streamprocessor*</a>		
<a href="#">StartTextDetection</a>	Grants permission to start the asynchronous detection of text in a stored video	Write			
<a href="#">StopProjectVersion</a>	Grants permission to stop a running model version	Write	<a href="#">projectversion*</a>		
<a href="#">StopStreamProcessor</a>	Grants permission to stop a running stream processor	Write	<a href="#">streamprocessor*</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">collection</a>		
			<a href="#">dataset</a>		
			<a href="#">project</a>		
			<a href="#">projectversion</a>		
			<a href="#">streamprocessor</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">collection</a>		
			<a href="#">dataset</a>		
			<a href="#">project</a>		
			<a href="#">projectversion</a>		
			<a href="#">streamprocessor</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDatasetEntries</a>	Grants permission to add or update one or more JSON Lines (entries) in a dataset	Write	<a href="#">dataset*</a>		
<a href="#">UpdateStreamProcessor</a>	Grants permission to modify properties for a stream processor	Write	<a href="#">streamprocessor*</a>		

## Resource types defined by Amazon Rekognition

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">collection</a>	arn:\${Partition}:rekognition:\${Region}:\${Account}:collection/\${CollectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">streamprocessor</a>	arn:\${Partition}:rekognition:\${Region}:\${Account}:streamprocessor/\${StreamprocessorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">project</a>	arn:\${Partition}:rekognition:\${Region}:\${Account}:project/\${ProjectName}/\${CreationTimestamp}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">projectversion</a>	arn:\${Partition}:rekognition:\${Region}:\${Account}:project/\${ProjectName}/version/\${VersionName}/\${CreationTimestamp}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dataset</a>	arn:\${Partition}:rekognition:\${Region}:\${Account}:project/\${ProjectName}/dataset/\${DatasetType}/\${CreationTimestamp}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Rekognition

Amazon Rekognition defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS rePost Private

AWS rePost Private (service prefix: `repost space`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS rePost Private](#)
- [Resource types defined by AWS rePost Private](#)
- [Condition keys for AWS rePost Private](#)

## Actions defined by AWS rePost Private

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchAddChannelRoleToAccessors</a>	Grants permission to add a role to users and groups in a private re:Post channel in your account	Write	<a href="#">space*</a>		
<a href="#">BatchAddRole</a>	Grants permission to add a role to users and groups in a private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">BatchRemoveChannelRoleFromAccessors</a>	Grants permission to remove a role from users and groups in a private re:Post channel in your account	Write	<a href="#">space*</a>		
<a href="#">BatchRemoveRole</a>	Grants permission to remove a role from users and groups in a private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">CreateChannel</a>	Grants permission to create a new channel in private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">CreateSpace</a>	Grants permission to create a new private re:Post in your account	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSpace</a>	Grants permission to delete a private re:Post from your account	Write	<a href="#">space*</a>		
<a href="#">DeregisterAdmin</a>	Grants permission to remove an administrator to a private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">GetChannel</a>	Grants permission to get the description for a channel in private re:Post in your account	Read	<a href="#">space*</a>		
<a href="#">GetSpace</a>	Grants permission to get the description for a private re:Post in your account	Read	<a href="#">space*</a>		
<a href="#">ListChannels</a>	Grants permission to list all channels in a private re:Post in your account	Read	<a href="#">space*</a>		
<a href="#">ListSpaces</a>	Grants permission to list all private re:Posts in your account	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags associated with a resource	Read	<a href="#">space*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterAdmin</a>	Grants permission to add an administrator to a private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">SendInvites</a>	Grants permission to send invites to users of a private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">space*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">space*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateChannel</a>	Grants permission to update a channel in private re:Post in your account	Write	<a href="#">space*</a>		
<a href="#">UpdateSpace</a>	Grants permission to update a private re:Post in your account	Write	<a href="#">space*</a>		

## Resource types defined by AWS rePost Private

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">space</a>	arn:\${Partition}:repostspace:\${Region}:\${Account}:space/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS rePost Private

AWS rePost Private defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Resilience Hub

AWS Resilience Hub (service prefix: `resiliencehub`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Resilience Hub](#)
- [Resource types defined by AWS Resilience Hub](#)
- [Condition keys for AWS Resilience Hub](#)

### Actions defined by AWS Resilience Hub

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptResourceGroupingRecommendations</a>	Grants permission to accept resource grouping recommendations	Write	<a href="#">application*</a>		
<a href="#">AddDraftApplicationVersionResourceMappings</a>	Grants permission to add draft application version resource mappings	Write	<a href="#">application*</a>		cloudformation:DescribeStacks

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					cloudformation:ListStackResources resource-groups:GetGroup resource-groups:ListGroupResources servicecatalog:GetApplication servicecatalog:ListAssociatedResources
<a href="#">BatchUpdateRecommendationStatus</a>	Grants permission to include or exclude one or more operational recommendations	Write	<a href="#">application*</a>		
<a href="#">CreateApp</a>	Grants permission to create application	Write	<a href="#">application*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAppVersionApplicationComponent</a>	Grants permission to create application app component	Write	<a href="#">application*</a>		
<a href="#">CreateAppVersionResource</a>	Grants permission to create application resource	Write	<a href="#">application*</a>		
<a href="#">CreateRecommendationTemplate</a>	Grants permission to create recommendation template	Write	<a href="#">application*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	s3:CreateBucket s3:ListBucket s3:PutObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateResiliencyPolicy</a>	Grants permission to create resiliency policy	Write	<a href="#">resiliency-policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteApp</a>	Grants permission to batch delete application	Write	<a href="#">application*</a>		
<a href="#">DeleteAppAssessment</a>	Grants permission to batch delete application assessment	Write	<a href="#">application*</a>		
<a href="#">DeleteAppInputSource</a>	Grants permission to remove application input source	Write	<a href="#">application*</a>		
<a href="#">DeleteAppVersionAppComponent</a>	Grants permission to delete application app component	Write	<a href="#">application*</a>		
<a href="#">DeleteAppVersionResource</a>	Grants permission to delete application resource	Write	<a href="#">application*</a>		
<a href="#">DeleteRecommendationTemplate</a>	Grants permission to batch delete recommendation template	Write	<a href="#">application*</a>		
<a href="#">DeleteResiliencyPolicy</a>	Grants permission to batch delete resiliency policy	Write	<a href="#">resiliency-policy*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeApp</a>	Grants permission to describe application	Read	<a href="#">application*</a>		
<a href="#">DescribeAppAssessment</a>	Grants permission to describe application assessment	Read	<a href="#">application*</a>		
<a href="#">DescribeAppVersion</a>	Grants permission to describe application version	Read	<a href="#">application*</a>		
<a href="#">DescribeAppVersionAppComponent</a>	Grants permission to describe application version app component	Read	<a href="#">application*</a>		
<a href="#">DescribeAppVersionResource</a>	Grants permission to describe application version resource	Read	<a href="#">application*</a>		
<a href="#">DescribeAppVersionResourcesResolutionStatus</a>	Grants permission to describe application resolution	Read	<a href="#">application*</a>		
<a href="#">DescribeAppVersionTemplate</a>	Grants permission to describe application version template	Read	<a href="#">application*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDraftApplicationVersionResourcesImportStatus</a>	Grants permission to describe draft application version resources import status	Read	<a href="#">application*</a>		
<a href="#">DescribeMetricsExport</a>	Grants permission to describe metrics export	Read			
<a href="#">DescribeResiliencyPolicy</a>	Grants permission to describe resiliency policy	Read	<a href="#">resiliency-policy*</a>		
<a href="#">DescribeResourceGroupingRecommendationTask</a>	Grants permission to describe the latest status of the grouping recommendation process	Read	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportResourcesToDraftAppVersion</a>	Grants permission to import resources to draft application version	Write	<a href="#">application*</a>		cloudformation:DescribeStacks  cloudformation:ListStackResources  resource-groups:GetGroup  resource-groups:ListGroupResources  servicecatalog:GetApplication  servicecatalog:ListAssociatedResources
<a href="#">ListAlarmRecommendations</a>	Grants permission to list alarm recommendation	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAppAssessmentComplianceDrifts</a>	Grants permission to list compliance drifts that were detected while running an assessment	List	<a href="#">application*</a>		
<a href="#">ListAppAssessmentResourceDrifts</a>	Grants permission to list resource drifts that were detected while running an assessment	List	<a href="#">application*</a>		
<a href="#">ListAppAssessments</a>	Grants permission to list application assessment	List			
<a href="#">ListAppComponentCompliances</a>	Grants permission to list app component compliances	List	<a href="#">application*</a>		
<a href="#">ListAppComponentRecommendations</a>	Grants permission to list app component recommendations	List	<a href="#">application*</a>		
<a href="#">ListAppInputSources</a>	Grants permission to list application input sources	List	<a href="#">application*</a>		
<a href="#">ListAppVersionAppComponents</a>	Grants permission to list application version app components	List	<a href="#">application*</a>		
<a href="#">ListAppVersionResourceMappings</a>	Grants permission to application version resource mappings	List	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplicationResources</a>	Grants permission to list application resources	List	<a href="#">application*</a>		
<a href="#">ListApplicationVersions</a>	Grants permission to list application version	List	<a href="#">application*</a>		
<a href="#">ListApplications</a>	Grants permission to list applications	List			
<a href="#">ListMetrics</a>	Grants permission to list metrics	List			
<a href="#">ListRecommendationTemplates</a>	Grants permission to list recommendation templates	List	<a href="#">application*</a>		
<a href="#">ListResiliencyPolicies</a>	Grants permission to list resiliency policies	List			
<a href="#">ListResourceGroupingRecommendations</a>	Grants permission to list resource grouping recommendations	List	<a href="#">application*</a>		
<a href="#">ListSOPRecommendations</a>	Grants permission to list SOP recommendations	List	<a href="#">application*</a>		
<a href="#">ListSuggestedResiliencyPolicies</a>	Grants permission to list suggested resiliency policies	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			
<a href="#">ListTestRecommendations</a>	Grants permission to list test recommendations	List	<a href="#">application*</a>		
<a href="#">ListUnsupportedApplicationVersionResources</a>	Grants permission to list unsupported application version resources	List	<a href="#">application*</a>		
<a href="#">PublishApplicationVersion</a>	Grants permission to publish application version	Write	<a href="#">application*</a>		
<a href="#">PutDraftApplicationVersionTemplate</a>	Grants permission to put draft application version template	Write	<a href="#">application*</a>		
<a href="#">RejectResourceGroupingRecommendations</a>	Grants permission to reject resource grouping recommendations	Write	<a href="#">application*</a>		
<a href="#">RemoveDraftApplicationVersionResourceMappings</a>	Grants permission to remove draft application version mappings	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResolveApplicationVersionResources</a>	Grants permission to resolve application version resources	Write	<a href="#">application*</a>		cloudformation:DescribeStacks cloudformation:ListStackResources resource-groups:GetGroup resource-groups:ListGroupResources servicetatalog:GetApplication servicetatalog:ListAssociatedResources

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartAppAssessment</a>	Grants permission to create application assessment	Write	<a href="#">application*</a>		cloudformation:DescribeStacks cloudformation:ListStackResources cloudwatch:DescribeAlarms cloudwatch:GetMetricData cloudwatch:GetMetricStatistics cloudwatch:PutMetricData ec2:DescribeRegions fis:GetExperimentTemplate

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					fis:ListExperimentsTemplates  fis:ListExperiments  resource-groups:GetGroup  resource-groups:ListGroupResources  servicecatalog:GetApplication  servicecatalog:ListAssociatedResources  ssm:GetParametersByPath



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMetricsExport</a>	Grants permission to start the metrics export	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartResourceGroupingRecommendationTask</a>	Grants permission to start the grouping recommendation generation process	Write	<a href="#">application*</a>		
<a href="#">TagResource</a>	Grants permission to assign a resource tag	Tagging	<a href="#">app-assessment</a>		
			<a href="#">application</a>		
			<a href="#">recommendation-template</a>		
			<a href="#">resiliency-policy</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">app-assessment</a> <a href="#">application</a> <a href="#">recommendation-template</a> <a href="#">resiliency-policy</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApp</a>	Grants permission to update application	Write	<a href="#">application*</a>		iam:PassRole
<a href="#">UpdateAppVersion</a>	Grants permission to update application version	Write	<a href="#">application*</a>		
<a href="#">UpdateAppVersionAppComponent</a>	Grants permission to update application app component	Write	<a href="#">application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAppVersionResource</a>	Grants permission to update application resource	Write	<a href="#">application*</a>		
<a href="#">UpdateResiliencyPolicy</a>	Grants permission to update resiliency policy	Write	<a href="#">resiliency-policy*</a>		

## Resource types defined by AWS Resilience Hub

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">resiliency-policy</a>	arn:\${Partition}:resiliencehub:\${Region}:\${Account}:resiliency-policy/\${ResiliencyPolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">application</a>	arn:\${Partition}:resiliencehub:\${Region}:\${Account}:app/\${AppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">app-assessment</a>	arn:\${Partition}:resiliencehub:\${Region}:\${Account}:app-assessment/\${AppAssessmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">recommendation-template</a>	arn:\${Partition}:resiliencehub:\${Region}:\${Account}:recommendation-template/\${RecommendationTemplateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Resilience Hub

AWS Resilience Hub defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Resource Access Manager (RAM)

AWS Resource Access Manager (RAM) (service prefix: `ram`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Resource Access Manager \(RAM\)](#)

- [Resource types defined by AWS Resource Access Manager \(RAM\)](#)
- [Condition keys for AWS Resource Access Manager \(RAM\)](#)

## Actions defined by AWS Resource Access Manager (RAM)

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptResourceShareInvitation</a>	Grants permission to accept the specified resource share invitation	Write	<a href="#">resource-share-invitation*</a>		
				<a href="#">ram:ShareOwnerAccountId</a> <a href="#">ram:ResourceShareName</a>	
<a href="#">AssociateResourceShare</a>	Grants permission to associate resource(s) and/or principal(s) to a resource share	Write	<a href="#">resource-share*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">ram:ResourceShareName</a> <a href="#">ram:AllowsExternalPrincipals</a> <a href="#">ram:Principal</a> <a href="#">ram:RequestedResourceType</a> <a href="#">ram:ResourceArn</a> <a href="#">ram:RetainSharingOnAccountLeaveOrganization</a>	
<a href="#">AssociateResourceSharePermission</a>	Grants permission to associate a Permission with a Resource Share	Write	<a href="#">customer-managed-permission*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">permission*</a> <a href="#">resource-share*</a>		
<a href="#">CreatePermission</a>	Grants permission to create a Permission that can be associated to a Resource Share	Write		<a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	ram:TagResource
<a href="#">CreatePermissionVersion</a>	Grants permission to create a new version of a Permission that can be associated to a Resource Share	Write	<a href="#">customer-managed-permission*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateResourceShare</a>	Grants permission to create a resource share with provided resource(s) and/or principal(s)	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ram:RequestedResourceType</a> <a href="#">ram:ResourceArn</a> <a href="#">ram:RequestedAllowExternalPrincipals</a> <a href="#">ram:Principal</a> <a href="#">ram:AllowExternalPrincipals</a> <a href="#">ram:RetainSharingOnAccountL</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">eaveOrganization</a>	
<a href="#">DeletePermission</a>	Grants permission to delete a specified Permission	Write	<a href="#">customer-managed-permission</a> *		
<a href="#">DeletePermissionVersion</a>	Grants permission to delete a specified version of a permission	Write	<a href="#">customer-managed-permission</a> *	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>	
				<a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourceShare</a>	Grants permission to delete resource share	Write	<a href="#">resource-share*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceShareName</a> <a href="#">ram:AllowsExternalPrincipals</a> <a href="#">ram:RetainSharingOnAccountLeaveOrganization</a>	
<a href="#">DisassociateResourceShare</a>	Grants permission to disassociate resource(s) and/or principal(s) from a resource share	Write	<a href="#">resource-share*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceShareName</a> <a href="#">ram:AllowsExternalPrincipals</a> <a href="#">ram:Principal</a> <a href="#">ram:RequestedResourceType</a> <a href="#">ram:ResourceArn</a> <a href="#">ram:RetainSharingOnAccountL</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">LeaveOrganization</a>	
<a href="#">DisassociateResourceSharePermission</a>	Grants permission to disassociate a Permission from a Resource Share	Write	<a href="#">customer-managed-permission*</a> <a href="#">permission*</a> <a href="#">resource-share*</a>		
<a href="#">EnableSharingWithAWSOrganization</a>	Grants permission to access customer's organization and create a SLR in the customer's account	Permissions management			iam:CreateServiceLinkedRole  organizations:DescribeOrganization  organizations:EnableAWSServiceAccess
<a href="#">GetPermission</a>	Grants permission to get the contents of an AWS RAM permission	Read	<a href="#">customer-managed-permission*</a> <a href="#">-</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">permission*</a>	<a href="#">ram:PermissionArn</a>	
<a href="#">GetResourcePolicies</a>	Grants permission to get the policies for the specified resources that you own and have shared	Read			
<a href="#">GetResourceShareAssociations</a>	Grants permission to get a set of resource share associations from a provided list or with a specified status of the specified type	Read			
<a href="#">GetResourceShareInvitations</a>	Grants permission to get resource share invitations by the specified invitation arn or those for the resource share	Read			
<a href="#">GetResourceShares</a>	Grants permission to get a set of resource shares from a provided list or with a specified status	Read		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPendingInvitationResources</a>	Grants permission to list the resources in a resource share that is shared with you but that the invitation is still pending for	Read	<a href="#">resource-share-invitation*</a>		
				<a href="#">ram:ResourceShareName</a>	
<a href="#">ListPermissionsAssociations</a>	Grants permission to list information about the permission and any associations	List	<a href="#">customer-managed-permission*</a>		
			<a href="#">permission*</a>		
				<a href="#">ram:PermissionArn</a>	
				<a href="#">ram:PermissionResourceType</a>	
<a href="#">ListPermissionsVersions</a>	Grants permission to list the versions of an AWS RAM permission	List			
<a href="#">ListPermissions</a>	Grants permission to list the AWS RAM permissions	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPrincipals</a>	Grants permission to list the principals that you have shared resources with or that have shared resources with you	List			
<a href="#">ListReplacementAssociationsWork</a>	Grants permission to retrieve the status of the asynchronous permission replacement	List			
<a href="#">ListResourceSharePermissions</a>	Grants permission to list the Permissions associated with a Resource Share	List	<a href="#">resource-share*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ram:ResourceShareName</a>  <a href="#">ram:AllowExternalPrincipals</a>  <a href="#">ram:RetainSharingOnAccountLeaveOrganization</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceTypes</a>	Grants permission to list the shareable resource types supported by AWS RAM	List			
<a href="#">ListResources</a>	Grants permission to list the resources that you added to resource shares or the resources that are shared with you	List			
<a href="#">ListSourceAssociations</a>	Grants permission to list source associations for resource shares	List			
<a href="#">PromotePermissionCreatedFromPolicy</a>	Grants permission to create a separate, fully manageable customer managed permission	Write	<a href="#">customer-managed-permission</a> *		
				<a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>	
<a href="#">PromoteResourceShareCreatedFromPolicy</a>	Grants permission to promote the specified resource share	Write	<a href="#">resource-share*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectResourceShareInvitation</a>	Grants permission to reject the specified resource share invitation	Write	<a href="#">resource-share-invitation*</a>	<a href="#">ram:ShareOwnerAccountId</a> <a href="#">ram:ResourceShareName</a>	
<a href="#">ReplacePermissionAssociations</a>	Grants permission to update all resource shares to a new permission	Write	<a href="#">customer-managed-permission*</a> <a href="#">permission*</a>	<a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>	
<a href="#">SetDefaultPermissionVersion</a>	Grants permission to specify a version number as the default version for the respective customer managed permission	Write	<a href="#">customer-managed-permission*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ram:PermissionArn</a>  <a href="#">ram:PermissionResourceType</a>	
<a href="#">TagResource</a>	Grants permission to tag the specified resource share or permission	Tagging	<a href="#">customer-managed-permission</a>		
			<a href="#">resource-share</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag the specified resource share or permission	Tagging	<a href="#">customer-managed-permission</a>		
			<a href="#">resource-share</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateResourceShare</a>	Grants permission to update attributes of the resource share	Write	<a href="#">resource-share*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceTag/\${TagKey}</a> <a href="#">ram:ResourceShareName</a> <a href="#">ram:AllowExternalPrincipals</a> <a href="#">ram:RequestedAllowExternalPrincipals</a> <a href="#">ram:RetainSharingOnAccountLeaveOrganization</a>	

## Resource types defined by AWS Resource Access Manager (RAM)

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">resource-share</a>	arn:\${Partition}:ram:\${Region}:\${Account}:resource-share/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:AllowsExternalPrincipals</a> <a href="#">ram:ResourceShareName</a>
<a href="#">resource-share-invitation</a>	arn:\${Partition}:ram:\${Region}:\${Account}:resource-share-invitation/\${ResourcePath}	<a href="#">ram:ShareOwnerAccountId</a>
<a href="#">permission</a>	arn:\${Partition}:ram::\${Account}:permission/\${ResourcePath}	<a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>
<a href="#">customer-managed-permission</a>	arn:\${Partition}:ram:\${Region}:\${Account}:permission/\${ResourcePath}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ram:PermissionArn</a> <a href="#">ram:PermissionResourceType</a>

## Condition keys for AWS Resource Access Manager (RAM)

AWS Resource Access Manager (RAM) defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request when creating or tagging a resource share. If users don't pass these specific tags, or if they don't specify tags at all, the request fails	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed when creating or tagging a resource share	ArrayOfString
<a href="#">ram:AllowExternalPrincipals</a>	Filters access by resource shares that allow or deny sharing with external principals. For example, specify <code>true</code> if the action can only be performed on resource shares that allow sharing with external principals. External principals are AWS accounts that are outside of its AWS organization	Bool
<a href="#">ram:PermissionArn</a>	Filters access by the specified Permission ARN	ARN
<a href="#">ram:PermissionResourceType</a>	Filters access by permissions of specified resource type	String
<a href="#">ram:Principal</a>	Filters access by format of the specified principal	String

Condition keys	Description	Type
<a href="#">ram:RequestedAllowExternalPrincipals</a>	Filters access by the specified value for 'allowExternalPrincipals'. External principals are AWS accounts that are outside of its AWS Organization	Bool
<a href="#">ram:RequestedResourceType</a>	Filters access by the specified resource type	String
<a href="#">ram:ResourceArn</a>	Filters access by the specified ARN	ARN
<a href="#">ram:ResourceShareName</a>	Filters access by a resource share with the specified name	String
<a href="#">ram:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">ram:RetainSharingOnAccountLeaveOrganization</a>	Filters access by RetainSharingOnAccountLeave Organization value within ResourceShareConfiguration that is set on resource share	Bool
<a href="#">ram:ShareOwnerAccountId</a>	Filters access by resource shares owned by a specific account. For example, you can use this condition key to specify which resource share invitations can be accepted or rejected based on the resource share owner's account ID	String

## Actions, resources, and condition keys for AWS Resource Explorer

AWS Resource Explorer (service prefix: `resource-explorer-2`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.



## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Resource Explorer](#)
- [Resource types defined by AWS Resource Explorer](#)
- [Condition keys for AWS Resource Explorer](#)

## Actions defined by AWS Resource Explorer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateDefaultView</a>	Grants permission to set the specified view as the default for this AWS Region in this AWS account	Write			
<a href="#">BatchGetView</a>	Grants permission to retrieve details about views that you specify by a list of ARNs	Read			resource-explorer-2:GetView
<a href="#">CreateIndex</a>	Grants permission to turn on Resource Explorer in the AWS Region in which you called	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	this operation by creating an index			<a href="#">aws:TagKeys</a>	
<a href="#">CreateManagedView</a> [permission only]	Grants permission to create managed view	Write			
<a href="#">CreateResourceExplorerSetup</a>	Grants permission to create resource explorer setup	Write			
<a href="#">CreateStreamingAccessForService</a> [permission only]	Grants permission to create resource explorer streaming access	Write			
<a href="#">CreateView</a>	Grants permission to create a view that users can query	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteIndex</a>	Grants permission to turn off Resource Explorer in the specified AWS Region by deleting the index	Write	<a href="#">index*</a>		
<a href="#">DeleteResourceExplorerSetup</a>	Grants permission to delete resource explorer setup	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete the specified view's resource policy	Permissions management	<a href="#">view*</a>		
DeleteStreamingAccessForService [permission only]	Grants permission to delete resource explorer streaming access	Write			
<a href="#">DeleteView</a>	Grants permission to delete a view	Write	<a href="#">view*</a>		
<a href="#">DisassociateDefaultView</a>	Grants permission to remove the default view for the AWS Region in which you call this operation	Write			
<a href="#">GetAccountLevelServiceConfiguration</a>	Grants permission to Resource Explorer to access account level data within your AWS Organization	Read			
<a href="#">GetDefaultView</a>	Grants permission to retrieve the Amazon resource name (ARN) of the view that is the default for the AWS Region in which you call this operation	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIndex</a>	Grants permission to retrieve information about the index in the AWS Region in which you call this operation	Read			
<a href="#">GetManagedView</a>	Grants permission to get managed view	Read	<a href="#">managed-view*</a>		
<a href="#">GetResourceExplorerSetup</a>	Grants permission to get resource explorer setup	Read			
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to retrieve information about the specified view's resource policy	Read	<a href="#">view*</a>		
<a href="#">GetServiceIndex</a>	Grants permission to get service index	Read			
<a href="#">GetServiceView</a>	Grants permission to get service view	Read			
<a href="#">GetView</a>	Grants permission to retrieve information about the specified view	Read	<a href="#">view*</a>		
<a href="#">ListIndexes</a>	Grants permission to list the indexes in all AWS Regions	List			
<a href="#">ListIndexesForMember</a>	Grants permission to list the organization member account's indexes in all AWS Regions	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListManagedViews</a>	Grants permission to list managed views	List			
<a href="#">ListServiceIndexes</a>	Grants permission to list service indexes in all AWS Regions	List			
<a href="#">ListServiceViews</a>	Grants permission to list service views in all AWS Regions	List			
<a href="#">ListStreamingAccessForServices</a>	Grants permission to list streaming access for services	List			
<a href="#">ListSupportedResourceTypes</a>	Grants permission to retrieve a list of all resource types currently supported by Resource Explorer	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that are attached to the specified resource	Read	<a href="#">index</a> <a href="#">view</a>		
<a href="#">ListViews</a>	Grants permission to list the Amazon resource names (ARNs) of all of the views available in the AWS Region in which you call this operation	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to update the specified view's resource policy	Permissions management	<a href="#">view*</a>		
<a href="#">Search</a>	Grants permission to search for resources and display details about all resources that match the specified criteria	Read	<a href="#">view*</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tag key and value pairs to the specified resource	Tagging	<a href="#">index</a>	<a href="#">resource-explorer-2:Operation</a>	
			<a href="#">view</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tag key and value pairs from the specified resource	Tagging	<a href="#">index</a>		
			<a href="#">view</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIndexType</a>	Grants permission to change the type of the index from LOCAL to AGGREGATOR or back	Write	<a href="#">index*</a>		
<a href="#">UpdateView</a>	Grants permission to modify some of the details of a view	Write	<a href="#">view*</a>		

## Resource types defined by AWS Resource Explorer

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">view</a>	arn:\${Partition}:resource-explorer-2:\${Region}:\${Account}:view/\${ViewName}/\${ViewUuid}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">index</a>	arn:\${Partition}:resource-explorer-2:\${Region}:\${Account}:index/\${IndexUuid}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">managed-view</a>	arn:\${Partition}:resource-explorer-2:\${Region}:\${Account}:managed-view/\${ManagedViewName}/\${ManagedViewUuid}	



## Condition keys for AWS Resource Explorer

AWS Resource Explorer defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag keys that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag keys attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">resource-explorer-2:Operation</a>	Filters access by the actual operation that is being invoked, available values: Search, ListResources	String

## Actions, resources, and condition keys for Amazon Resource Group Tagging API

Amazon Resource Group Tagging API (service prefix: tag) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Resource Group Tagging API](#)
- [Resource types defined by Amazon Resource Group Tagging API](#)
- [Condition keys for Amazon Resource Group Tagging API](#)

## Actions defined by Amazon Resource Group Tagging API

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeReportCreation</a>	Grants permission to describe the status of the StartReportCreation operation	Read			
<a href="#">GetComplianceSummary</a>	Grants permission to retrieve a summary of how many resources are noncompliant with their effective tag policies	Read			
<a href="#">GetResources</a>	Grants permission to return tagged or previously tagged resources in the specified AWS Region for the calling account	Read			
<a href="#">GetTagKeys</a>	Grants permission to returns tag keys currently in use in the specified AWS Region for the calling account	Read			
<a href="#">GetTagValues</a>	Grants permission to return tag values for the specified	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	key that are used in the specified AWS Region for the calling account				
<a href="#">ListRequiredTags</a>	Grants permission to list required tags for supported resource types in the calling account	List			
<a href="#">StartReportCreation</a>	Grants permission to start generating a report listing all tagged resources in accounts across your organization, and whether each resource is compliant with the effective tag policy	Write			
<a href="#">TagResources</a>	Grants permission to apply one or more tags to the specified resources	Tagging			
<a href="#">UntagResources</a>	Grants permission to remove the specified tags from the specified resources	Tagging			

## Resource types defined by Amazon Resource Group Tagging API

Amazon Resource Group Tagging API does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Resource Group Tagging API, specify "Resource": "\*" in your policy.

## Condition keys for Amazon Resource Group Tagging API

Resource Group Tagging has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Resource Groups

AWS Resource Groups (service prefix: `resource-groups`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Resource Groups](#)
- [Resource types defined by AWS Resource Groups](#)
- [Condition keys for AWS Resource Groups](#)

## Actions defined by AWS Resource Groups

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Resource</a> [permission only]	Grants permission to associate a resource to an Application	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelTagSyncTask</a>	Grants permission to cancel a tag-sync task for an application group	Write	<a href="#">group*</a>		resource-groups:DeleteGroup
<a href="#">CreateGroup</a>	Grants permission to create a resource group with a specified name, description, and resource query	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	cloudformation:DescribeStacks
<a href="#">DeleteGroup</a>	Grants permission to delete a specified resource group	Write	<a href="#">group*</a>		tag:GetResources
<a href="#">DeleteGroupPolicy</a> [permission only]	Grants permission to delete a resource-based policy for the specified group	Write	<a href="#">group*</a>		
<a href="#">DisassociateResource</a> [permission only]	Grants permission to disassociate a resource from an Application	Write	<a href="#">group*</a>		
<a href="#">GetAccountSettings</a>	Grants permission to get the current status of optional features in Resource Groups	Read			
<a href="#">GetGroup</a>	Grants permission to get information of a specified resource group	Read	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGroupConfiguration</a>	Grants permission to get the service configuration associated with the specified resource group	Read	<a href="#">group*</a>		
<a href="#">GetGroupPolicy</a> [permission only]	Grants permission to get a resource-based policy for the specified group	Read	<a href="#">group*</a>		
<a href="#">GetGroupQuery</a>	Grants permission to get the query associated with a specified resource group	Read	<a href="#">group*</a>		
<a href="#">GetTagSyncTask</a>	Grants permission to get information of a specified tag-sync task	Read	<a href="#">group*</a>		
<a href="#">GetTags</a>	Grants permission to get the tags associated with a specified resource group	Read	<a href="#">group*</a>		
<a href="#">GroupResources</a>	Grants permission to add the specified resources to the specified group	Write	<a href="#">group*</a>		resource-groups:Tag tag:TagResources



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGroupResources</a>	Grants permission to list the resources that are members of a specified resource group	List	<a href="#">group*</a>		cloudformation:DescribeStacks  cloudformation:ListStackResources  tag:GetResources
<a href="#">ListGroupingStatuses</a>	Grants permission to list grouping statuses for a specified application group	List	<a href="#">group*</a>		
<a href="#">ListGroups</a>	Grants permission to list all resource groups in your account	List			
<a href="#">ListResourceTypes</a> [permission only]	Grants permission to list supported resource types	List			
<a href="#">ListTagSyncTasks</a>	Grants permission to list all tag-sync tasks in your account	List	<a href="#">group*</a>		
<a href="#">PutGroupConfiguration</a>	Grants permission to put the service configuration associated with the specified resource group	Write	<a href="#">group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutGroupPolicy</a> [permission only]	Grants permission to add a resource-based policy for the specified group	Write	<a href="#">group*</a>		
<a href="#">SearchResources</a>	Grants permission to search for AWS resources matching the given query	List			cloudformation:DescribeStacks  cloudformation:ListStackResources  tag:GetResources
<a href="#">StartTagSyncTask</a>	Grants permission to create a tag-sync task for an application group	Write	<a href="#">group*</a>		iam:PassRole  resource-groups:CreateGroup
<a href="#">Tag</a>	Grants permission to tag a specified resource group	Tagging	<a href="#">group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UngroupResources</a>	Grants permission to remove the specified resources from the specified group	Write	<a href="#">group*</a>		resource-groups:Untag tag:Untag Resources
<a href="#">Untag</a>	Grants permission to remove tags associated with a specified resource group	Tagging	<a href="#">group*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountSettings</a>	Grants permission to update optional features in Resource Groups	Write			
<a href="#">UpdateGroup</a>	Grants permission to update a specified resource group	Write	<a href="#">group*</a>		
<a href="#">UpdateGroupQuery</a>	Grants permission to update the query associated with a specified resource group	Write	<a href="#">group*</a>		cloudformation:DescribeStacks

## Resource types defined by AWS Resource Groups

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">group</a>	arn:\${Partition}:resource-groups:\${Region}:\${Account}:group/\${GroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tagSyncTask</a>	arn:\${Partition}:resource-groups:\${Region}:\${Account}:group/\${GroupName}/tag-sync-task/\${TaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Resource Groups

AWS Resource Groups defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon RHEL Knowledgebase Portal

Amazon RHEL Knowledgebase Portal (service prefix: `rhelkb`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon RHEL Knowledgebase Portal](#)
- [Resource types defined by Amazon RHEL Knowledgebase Portal](#)
- [Condition keys for Amazon RHEL Knowledgebase Portal](#)

## Actions defined by Amazon RHEL Knowledgebase Portal

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRhelURL</a>	Grants permission to access the Red Hat Knowledgebase portal	Read			

## Resource types defined by Amazon RHEL Knowledgebase Portal

Amazon RHEL Knowledgebase Portal does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon RHEL Knowledgebase Portal, specify "Resource": "\*" in your policy.

## Condition keys for Amazon RHEL Knowledgebase Portal

RHEL KB has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS RoboMaker

AWS RoboMaker (service prefix: `robomaker`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS RoboMaker](#)
- [Resource types defined by AWS RoboMaker](#)
- [Condition keys for AWS RoboMaker](#)

## Actions defined by AWS RoboMaker

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteWorlds</a>	Delete one or more worlds in a batch operation	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDescribeSimulationJob</a>	Describe multiple simulation jobs	Read			
<a href="#">CancelDeploymentJob</a>	Cancel a deployment job	Write	<a href="#">deploymentJob*</a>		
<a href="#">CancelSimulationJob</a>	Cancel a simulation job	Write	<a href="#">simulationJob*</a>		
<a href="#">CancelSimulationJobBatch</a>	Cancel a simulation job batch	Write	<a href="#">simulationJobBatch*</a>		
<a href="#">CancelWorldExportJob</a>	Cancel a world export job	Write	<a href="#">worldExportJob*</a>		
<a href="#">CancelWorldGenerationJob</a>	Cancel a world generation job	Write	<a href="#">worldGenerationJob*</a>		
<a href="#">CreateDeploymentJob</a>	Create a deployment job	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateFleet</a>	Create a deployment fleet that represents a logical group of robots running the same robot application	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRobot</a>	Create a robot that can be registered to a fleet	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole
<a href="#">CreateRobotApplication</a>	Create a robot application	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRobotApplicationVersion</a>	Create a snapshot of a robot application	Write	<a href="#">robotApplication*</a>		s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSimulationApplication</a>	Create a simulation application	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateSimulationApplicationVersion</a>	Create a snapshot of a simulation application	Write	<a href="#">simulationApplication*</a>		s3:GetObject
<a href="#">CreateSimulationJob</a>	Create a simulation job	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole
<a href="#">CreateWorldExportJob</a>	Create a world export job	Write	<a href="#">world*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateWorldGenerationJob</a>	Create a world generation job	Write	<a href="#">worldTemplate*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateWorldTemplate</a>	Create a world template	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteFleet</a>	Delete a deployment fleet	Write	<a href="#">deploymentFleet*</a>		
<a href="#">DeleteRobot</a>	Delete a robot	Write	<a href="#">robot*</a>		
<a href="#">DeleteRobotApplication</a>	Delete a robot application	Write	<a href="#">robotApplication*</a>		
<a href="#">DeleteSimulationApplication</a>	Delete a simulation application	Write	<a href="#">simulationApplication*</a>		
<a href="#">DeleteWorldTemplate</a>	Delete a world template	Write	<a href="#">worldTemplate*</a>		
<a href="#">DeregisterRobot</a>	Deregister a robot from a fleet	Write	<a href="#">deploymentFleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">robot*</a>		
<a href="#">DescribeDeploymentJob</a>	Describe a deployment job	Read	<a href="#">deploymentJob*</a>		
<a href="#">DescribeFleet</a>	Describe a deployment fleet	Read	<a href="#">deploymentFleet*</a>		
<a href="#">DescribeRobot</a>	Describe a robot	Read	<a href="#">robot*</a>		
<a href="#">DescribeRobotApplication</a>	Describe a robot application	Read	<a href="#">robotApplication*</a>		
<a href="#">DescribeSimulationApplication</a>	Describe a simulation application	Read	<a href="#">simulationApplication*</a>		
<a href="#">DescribeSimulationJob</a>	Describe a simulation job	Read	<a href="#">simulationJob*</a>		
<a href="#">DescribeSimulationJobBatch</a>	Describe a simulation job batch	Read	<a href="#">simulationJobBatch*</a>		
<a href="#">DescribeWorld</a>	Describe a world	Read	<a href="#">world*</a>		
<a href="#">DescribeWorldExportJob</a>	Describe a world export job	Read	<a href="#">worldExportJob*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWorldGenerationJob</a>	Describe a world generation job	Read	<a href="#">worldGenerationJob</a> *		
<a href="#">DescribeWorldTemplate</a>	Describe a world template	Read	<a href="#">worldTemplate</a> *		
<a href="#">GetWorldTemplateBody</a>	Get the body of a world template	Read	<a href="#">worldTemplate</a> *		
<a href="#">ListDeploymentJobs</a>	List deployment jobs	List			
<a href="#">ListFleets</a>	List fleets	List			
<a href="#">ListRobotApplications</a>	List robot applications	List			
<a href="#">ListRobots</a>	List robots	List			
<a href="#">ListSimulationApplications</a>	List simulation applications	List			
<a href="#">ListSimulationJobBatches</a>	List simulation job batches	List			
<a href="#">ListSimulationJobs</a>	List simulation jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
ListSupportedAvailabilityZones [permission only]	Lists supported availability zones	List			
<a href="#">ListTagsForResource</a>	List tags for a RoboMaker resource	List	<a href="#">deploymentFleet</a>		
			<a href="#">deploymentJob</a>		
			<a href="#">robot</a>		
			<a href="#">robotApplication</a>		
			<a href="#">simulationApplication</a>		
			<a href="#">simulationJob</a>		
			<a href="#">simulationJobBatch</a>		
			<a href="#">world</a>		
			<a href="#">worldExportJob</a>		
			<a href="#">worldGenerationJob</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">worldTemplate</a>		
<a href="#">ListWorldExportJobs</a>	List world export jobs	List			
<a href="#">ListWorldGenerationJobs</a>	List world generation jobs	List			
<a href="#">ListWorldTemplates</a>	List world templates	List			
<a href="#">ListWorlds</a>	List worlds	List			
<a href="#">RegisterRobot</a>	Register a robot to a fleet	Write	<a href="#">deploymentFleet*</a> <a href="#">robot*</a>		
<a href="#">RestartSimulationJob</a>	Restart a running simulation job	Write	<a href="#">simulationJob*</a>		
<a href="#">StartSimulationJobBatch</a>	Create a simulation job batch	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SyncDeploymentJob</a>	Ensures the most recently deployed robot application is deployed to all robots in the fleet	Write	<a href="#">deploymentFleet*</a>		iam:CreateServiceLinkedRole
<a href="#">TagResource</a>	Add tags to a RoboMaker resource	Tagging	<a href="#">deploymentFleet</a>		
			<a href="#">deploymentJob</a>		
			<a href="#">robot</a>		
			<a href="#">robotApplication</a>		
			<a href="#">simulationApplication</a>		
			<a href="#">simulationJob</a>		
			<a href="#">simulationJobBatch</a>		
			<a href="#">world</a>		
			<a href="#">worldExportJob</a>		
			<a href="#">worldGenerationJob</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">worldTemplate</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Remove tags from a RoboMaker resource	Tagging	<a href="#">deploymentFleet</a>		
			<a href="#">deploymentJob</a>		
			<a href="#">robot</a>		
			<a href="#">robotApplication</a>		
			<a href="#">simulationApplication</a>		
			<a href="#">simulationJob</a>		
			<a href="#">simulationJobBatch</a>		
			<a href="#">world</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">worldExportJob</a>		
			<a href="#">worldGenerationJob</a>		
			<a href="#">worldTemplate</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateRobotApplication</a>	Update a robot application	Write	<a href="#">robotApplication*</a>		
<a href="#">UpdateRobotDeployment</a> [permission only]	Report the deployment status for an individual robot	Write			
<a href="#">UpdateSimulationApplication</a>	Update a simulation application	Write	<a href="#">simulationApplication*</a>		
<a href="#">UpdateWorldTemplate</a>	Update a world template	Write	<a href="#">worldTemplate*</a>		

## Resource types defined by AWS RoboMaker

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">robotApplication</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:robot-application/\${ApplicationName}/\${CreatedOnEpoch}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">simulationApplication</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:simulation-application/\${ApplicationName}/\${CreatedOnEpoch}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">simulationJob</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:simulation-job/\${SimulationJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">simulationJobBatch</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:simulation-job-batch/\${SimulationJobBatchId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deploymentJob</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:deployment-job/\${DeploymentJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">robot</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:robot/\${RobotName}/\${CreatedOnEpoch}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deploymentFleet</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:deployment-fleet/\${FleetName}/\${CreatedOnEpoch}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">worldGenerationJob</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:world-generation-job/\${WorldGenerationJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">worldExportJob</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:world-export-job/\${WorldExportJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">worldTemplate</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:world-template/\${WorldTemplateJobId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">world</a>	arn:\${Partition}:robomaker:\${Region}:\${Account}:world/\${WorldId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS RoboMaker

AWS RoboMaker defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Route 53

Amazon Route 53 (service prefix: `route53`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53](#)
- [Resource types defined by Amazon Route 53](#)
- [Condition keys for Amazon Route 53](#)

## Actions defined by Amazon Route 53

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateKeySigningKey</a>	Grants permission to activate a key-signing key so that it can be used for signing by DNSSEC	Write	<a href="#">hostedzone*</a>		
<a href="#">AssociateVPCWithHostedZone</a>	Grants permission to associate an additional Amazon VPC with a private hosted zone	Write	<a href="#">hostedzone</a>	<a href="#">route53:VPs</a>	ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ChangeCidrCollection</a>	Grants permission to create or delete CIDR blocks within a CIDR collection	Write	<a href="#">cidrcollection*</a>		
<a href="#">ChangeResourceRecordSets</a>	Grants permission to create, update, or delete a record, which contains authoritative DNS information for a specified domain or subdomain name	Write	<a href="#">hostedzone*</a>	<a href="#">route53:ChangeResourceRecordSetsNormalizedRecordNames</a> <a href="#">route53:ChangeResourceRecordSetsRecordTypes</a> <a href="#">route53:ChangeResourceRecordSetsActions</a>	
<a href="#">ChangeTagsForResource</a>	Grants permission to add, edit, or delete tags for a health check or a hosted zone	Tagging	<a href="#">healthcheck*</a> <a href="#">hostedzone*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCidrCollection</a>	Grants permission to create a new CIDR collection	Write			
<a href="#">CreateHealthCheck</a>	Grants permission to create a new health check, which monitors the health and performance of your web applications, web servers, and other resources	Write			
<a href="#">CreateHostedZone</a>	Grants permission to create a public hosted zone, which you use to specify how the Domain Name System (DNS) routes traffic on the Internet for a domain, such as example.com, and its subdomains	Write		<a href="#">route53:VPcs</a>	ec2:DescribeVpcs
<a href="#">CreateKeySigningKey</a>	Grants permission to create a new key-signing key associated with a hosted zone	Write	<a href="#">hostedzone*</a>		
<a href="#">CreateQueryLoggingConfig</a>	Grants permission to create a configuration for DNS query logging	Write	<a href="#">hostedzone*</a>		
<a href="#">CreateReusableDelegationSet</a>	Grants permission to create a delegation set (a group of four name servers) that can be reused by multiple hosted zones	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrafficPolicy</a>	Grants permission to create a traffic policy, which you use to create multiple DNS records for one domain name (such as example.com) or one subdomain name (such as www.example.com)	Write			
<a href="#">CreateTrafficPolicyInstance</a>	Grants permission to create records in a specified hosted zone based on the settings in a specified traffic policy version	Write	<a href="#">hostedzone*</a> <a href="#">trafficpolicy*</a>		
<a href="#">CreateTrafficPolicyVersion</a>	Grants permission to create a new version of an existing traffic policy	Write	<a href="#">trafficpolicy*</a>		
<a href="#">CreateVPCAssociationAuthorization</a>	Grants permission to authorize the AWS account that created a specified VPC to submit an AssociateVPCWithHostedZone request, which associates the VPC with a specified hosted zone that was created by a different account	Write	<a href="#">hostedzone*</a>	<a href="#">route53:VPCs</a>	
<a href="#">DeactivateSigningKey</a>	Grants permission to deactivate a key-signing key so that it will not be used for signing by DNSSEC	Write	<a href="#">hostedzone*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCidrCollection</a>	Grants permission to delete a CIDR collection	Write	<a href="#">cidrcollection*</a>		
<a href="#">DeleteHealthCheck</a>	Grants permission to delete a health check	Write	<a href="#">healthcheck*</a>		
<a href="#">DeleteHostedZone</a>	Grants permission to delete a hosted zone	Write	<a href="#">hostedzone*</a>		
<a href="#">DeleteKeySigningKey</a>	Grants permission to delete a key-signing key	Write	<a href="#">hostedzone*</a>		
<a href="#">DeleteQueryLoggingConfig</a>	Grants permission to delete a configuration for DNS query logging	Write	<a href="#">queryloggingconfig*</a>		
<a href="#">DeleteReusableDelegationSet</a>	Grants permission to delete a reusable delegation set	Write	<a href="#">delegationset*</a>		
<a href="#">DeleteTrafficPolicy</a>	Grants permission to delete a traffic policy	Write	<a href="#">trafficpolicy*</a>		
<a href="#">DeleteTrafficPolicyInstance</a>	Grants permission to delete a traffic policy instance and all the records that Route 53 created when you created the instance	Write	<a href="#">trafficpolicyinstance*</a>		
<a href="#">DeleteVPCAssociationAuthorization</a>	Grants permission to remove authorization for associating an Amazon Virtual Private Cloud with a Route 53 private hosted zone	Write	<a href="#">hostedzone*</a>	<a href="#">route53:VPCs</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableHostedZoneDNSSEC</a>	Grants permission to disable DNSSEC signing in a specific hosted zone	Write	<a href="#">hostedzone*</a>		
<a href="#">DisassociateVPCFromHostedZone</a>	Grants permission to disassociate an Amazon Virtual Private Cloud from a Route 53 private hosted zone	Write	<a href="#">hostedzone</a>	<a href="#">route53:VPCs</a>	ec2:DescribeVpcs
<a href="#">EnableHostedZoneDNSSEC</a>	Grants permission to enable DNSSEC signing in a specific hosted zone	Write	<a href="#">hostedzone*</a>		
<a href="#">GetAccountLimit</a>	Grants permission to get the specified limit for the current account, for example, the maximum number of health checks that you can create using the account	Read			
<a href="#">GetChange</a>	Grants permission to get the current status of a request to create, update, or delete one or more records	List	<a href="#">change*</a>		
<a href="#">GetCheckersIPRanges</a>	Grants permission to get a list of the IP ranges that are used by Route 53 health checkers to check the health of your resources	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDNSSEC</a>	Grants permission to get information about DNSSEC for a specific hosted zone, including the key-signing keys in the hosted zone	Read	<a href="#">hostedzone*</a>		
<a href="#">GetGeolocation</a>	Grants permission to get information about whether a specified geographic location is supported for Route 53 geolocation records	List			
<a href="#">GetHealthCheck</a>	Grants permission to get information about a specified health check	Read	<a href="#">healthcheck*</a>		
<a href="#">GetHealthCheckCount</a>	Grants permission to get the number of health checks that are associated with the current AWS account	List			
<a href="#">GetHealthCheckLastFailureReason</a>	Grants permission to get the reason that a specified health check failed most recently	List	<a href="#">healthcheck*</a>		
<a href="#">GetHealthCheckStatus</a>	Grants permission to get the status of a specified health check	List	<a href="#">healthcheck*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetHostedZone</a>	Grants permission to get information about a specified hosted zone including the four name servers that Route 53 assigned to the hosted zone	List	<a href="#">hostedzone*</a>		
<a href="#">GetHostedZoneCount</a>	Grants permission to get the number of hosted zones that are associated with the current AWS account	List			
<a href="#">GetHostedZoneLimit</a>	Grants permission to get the specified limit for a specified hosted zone	Read	<a href="#">hostedzone*</a>		
<a href="#">GetQueryLoggingConfig</a>	Grants permission to get information about a specified configuration for DNS query logging	Read	<a href="#">queryloggingconfig*</a>		
<a href="#">GetReusableDelegationSet</a>	Grants permission to get information about a specified reusable delegation set, including the four name servers that are assigned to the delegation set	List	<a href="#">delegationset*</a>		
<a href="#">GetReusableDelegationSetLimit</a>	Grants permission to get the maximum number of hosted zones that you can associate with the specified reusable delegation set	Read	<a href="#">delegationset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTrafficPolicy</a>	Grants permission to get information about a specified traffic policy version	Read	<a href="#">trafficpolicy*</a>		
<a href="#">GetTrafficPolicyInstance</a>	Grants permission to get information about a specified traffic policy instance	Read	<a href="#">trafficpolicyinstance*</a>		
<a href="#">GetTrafficPolicyInstanceCount</a>	Grants permission to get the number of traffic policy instances that are associated with the current AWS account	Read			
<a href="#">ListCidrBlocks</a>	Grants permission to get a list of the CIDR blocks within a specified CIDR collection	List	<a href="#">cidrcollection*</a>		
<a href="#">ListCidrCollections</a>	Grants permission to get a list of the CIDR collections that are associated with the current AWS account	List			
<a href="#">ListCidrLocations</a>	Grants permission to get a list of the CIDR locations that belong to a specified CIDR collection	List	<a href="#">cidrcollection*</a>		
<a href="#">ListGeolocations</a>	Grants permission to get a list of geographic locations that Route 53 supports for geolocation	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListHealthChecks</a>	Grants permission to get a list of the health checks that are associated with the current AWS account	Read			
<a href="#">ListHostedZones</a>	Grants permission to get a list of the public and private hosted zones that are associated with the current AWS account	List			
<a href="#">ListHostedZonesByName</a>	Grants permission to get a list of your hosted zones in lexicographic order. Hosted zones are sorted by name with the labels reversed, for example, com.example.www	List			
<a href="#">ListHostedZonesByVPC</a>	Grants permission to get a list of all the private hosted zones that a specified VPC is associated with	List		<a href="#">route53:VPCs</a>	ec2:DescribeVpcs
<a href="#">ListQueryLoggingConfigs</a>	Grants permission to list the configurations for DNS query logging that are associated with the current AWS account or the configuration that is associated with a specified hosted zone	List	<a href="#">hostedzone</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceRecordSets</a>	Grants permission to list the records in a specified hosted zone	List	<a href="#">hostedzone*</a>		
<a href="#">ListReusableDelegationSets</a>	Grants permission to list the reusable delegation sets that are associated with the current AWS account.	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for one health check or hosted zone	Read	<a href="#">healthcheck</a> <a href="#">hostedzone</a>		
<a href="#">ListTagsForResources</a>	Grants permission to list tags for up to 10 health checks or hosted zones	Read	<a href="#">healthcheck</a> <a href="#">hostedzone</a>		
<a href="#">ListTrafficPolicies</a>	Grants permission to get information about the latest version for every traffic policy that is associated with the current AWS account. Policies are listed in the order in which they were created	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrafficPolicyInstances</a>	Grants permission to get information about the traffic policy instances that you created by using the current AWS account	Read			
<a href="#">ListTrafficPolicyInstancesByHostedZone</a>	Grants permission to get information about the traffic policy instances that you created in a specified hosted zone	List	<a href="#">hostedzone*</a>		
<a href="#">ListTrafficPolicyInstancesByPolicy</a>	Grants permission to get information about the traffic policy instances that you created using a specified traffic policy version	List	<a href="#">trafficpolicy*</a>		
<a href="#">ListTrafficPolicyVersions</a>	Grants permission to get information about all the versions for a specified traffic policy	List	<a href="#">trafficpolicy*</a>		
<a href="#">ListVPCAssociations</a>	Grants permission to get a list of the VPCs that were created by other accounts and that can be associated with a specified hosted zone	List	<a href="#">hostedzone*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TestDNSAnswer</a>	Grants permission to get the value that Route 53 returns in response to a DNS query for a specified record name and type	Read			
<a href="#">UpdateHealthCheck</a>	Grants permission to update an existing health check	Write	<a href="#">healthcheck*</a>		
<a href="#">UpdateHostedZoneComment</a>	Grants permission to update the comment for a specified hosted zone	Write	<a href="#">hostedzone*</a>		
<a href="#">UpdateHostedZoneFeatures</a>	Grants permission to update features for a specified hosted zone	Write	<a href="#">hostedzone*</a>		
<a href="#">UpdateTrafficPolicyComment</a>	Grants permission to update the comment for a specified traffic policy version	Write	<a href="#">trafficpolicy*</a>		
<a href="#">UpdateTrafficPolicyInstance</a>	Grants permission to update the records in a specified hosted zone that were created based on the settings in a specified traffic policy version	Write	<a href="#">trafficpolicyinstance*</a>		

## Resource types defined by Amazon Route 53

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cidrcolle ction</a>	arn:\${Partition}:route53:::cidrcolle ction/\${Id}	
<a href="#">change</a>	arn:\${Partition}:route53:::change/\${ Id}	
<a href="#">delegatio nset</a>	arn:\${Partition}:route53:::delegatio nset/\${Id}	
<a href="#">healthcheck</a>	arn:\${Partition}:route53:::healthche ck/\${Id}	
<a href="#">hostedzone</a>	arn:\${Partition}:route53:::hostedzon e/\${Id}	
<a href="#">trafficpolicy</a>	arn:\${Partition}:route53:::trafficpo licy/\${Id}	
<a href="#">trafficpo licyinstance</a>	arn:\${Partition}:route53:::trafficpo licyinstance/\${Id}	
<a href="#">querylogg ingconfig</a>	arn:\${Partition}:route53:::querylogg ingconfig/\${Id}	
<a href="#">vpc</a>	arn:\${Partition}:ec2:\${Region}:\${Acc ount}:vpc/\${VpcId}	

## Condition keys for Amazon Route 53

Amazon Route 53 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">route53:ChangeResourceRecordSetsActions</a>	Filters access by the change actions, CREATE, UPSERT, or DELETE, in a ChangeResourceRecordSets request	ArrayOfString
<a href="#">route53:ChangeResourceRecordSetsNormalizedRecordNames</a>	Filters access by the normalized DNS record names in a ChangeResourceRecordSets request	ArrayOfString
<a href="#">route53:ChangeResourceRecordSetRecordTypes</a>	Filters access by the DNS record types in a ChangeResourceRecordSets request	ArrayOfString
<a href="#">route53:VPCs</a>	Filters access by VPCs in request	String

## Actions, resources, and condition keys for Amazon Route 53 Domains

Amazon Route 53 Domains (service prefix: `route53domains`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53 Domains](#)
- [Resource types defined by Amazon Route 53 Domains](#)
- [Condition keys for Amazon Route 53 Domains](#)

## Actions defined by Amazon Route 53 Domains

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptDomainTransferFromAnotherAwsAccount</a>	Grants permission to accept the transfer of a domain from another AWS account to the current AWS account	Write			
<a href="#">AssociateDelegationSignerToDomain</a>	Grants permission to associate a new delegation signer to a domain	Write			
<a href="#">CancelDomainTransferToAnotherAwsAccount</a>	Grants permission to cancel the transfer of a domain from the current AWS account to another AWS account	Write			
<a href="#">CheckDomainAvailability</a>	Grants permission to check the availability of one domain name	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CheckDomainTransferability</a>	Grants permission to check whether a domain name can be transferred to Amazon Route 53	Read			
<a href="#">DeleteDomain</a>	Grants permission to delete domains	Write			
<a href="#">DeleteTagsForDomain</a>	Grants permission to delete the specified tags for a domain	Tagging			
<a href="#">DisableDomainAutoRenew</a>	Grants permission to configure Amazon Route 53 to automatically renew the specified domain before the domain registration expires	Write			
<a href="#">DisableDomainTransferLock</a>	Grants permission to remove the transfer lock on the domain (specifically the <code>clientTransferProhibited</code> status) to allow domain transfers	Write			
<a href="#">DisassociateDelegationSignerFromDomain</a>	Grants permission to disassociate an existing delegation signer from a domain	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableDomainAutoRenew</a>	Grants permission to configure Amazon Route 53 to automatically renew the specified domain before the domain registration expires	Write			
<a href="#">EnableDomainTransferLock</a>	Grants permission to set the transfer lock on the domain (specifically the clientTransferProhibited status) to prevent domain transfers	Write			
<a href="#">GetContactReachabilityStatus</a>	Grants permission to get information about whether the registrant contact has responded for operations that require confirmation that the email address for the registrant contact is valid, such as registering a new domain	Read			
<a href="#">GetDomainDetail</a>	Grants permission to get detailed information about a domain	Read			
<a href="#">GetDomainSuggestions</a>	Grants permission to get a list of suggested domain names given a string, which can either be a domain name or simply a word or phrase (without spaces)	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOperationDetail</a>	Grants permission to get the current status of an operation that is not completed	Read			
<a href="#">ListDomains</a>	Grants permission to list all the domain names registered with Amazon Route 53 for the current AWS account	List			
<a href="#">ListOperations</a>	Grants permission to list the operation IDs of operations that are not yet complete	List			
<a href="#">ListPrices</a>	Grants permission to list the prices of operations for TLDs	List			
<a href="#">ListTagsForDomain</a>	Grants permission to list all the tags that are associated with the specified domain	Read			
<a href="#">PushDomain</a>	Grants permission to change the IPS tag of .uk domain to initiate a transfer process from Route 53 to another registrar	Write			
<a href="#">RegisterDomain</a>	Grants permission to register domains	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectDomainTransferFromAnotherAwsAccount</a>	Grants permission to reject the transfer of a domain from another AWS account to the current AWS account	Write			
<a href="#">RenewDomain</a>	Grants permission to renew domains for the specified number of years	Write			
<a href="#">ResendContactReachabilityEmail</a>	Grants permission to resend the confirmation email to the current email address for the registrant contact for operations that require confirmation that the email address for the registrant contact is valid, such as registering a new domain	Write			
<a href="#">ResendOperationAuthorization</a>	Grants permission to resend the operation authorization	Write			
<a href="#">RetrieveDomainAuthCode</a>	Grants permission to get the AuthCode for the domain	Write			
<a href="#">TransferDomain</a>	Grants permission to transfer a domain from another registrar to Amazon Route 53	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TransferDomainToAnotherAwsAccount</a>	Grants permission to transfer a domain from the current AWS account to another AWS account	Write			
<a href="#">UpdateDomainContact</a>	Grants permission to update the contact information for domain	Write			
<a href="#">UpdateDomainContactPrivacy</a>	Grants permission to update the domain contact privacy setting	Write			
<a href="#">UpdateDomainNameservers</a>	Grants permission to replace the current set of name servers for a domain with the specified set of name servers	Write			
<a href="#">UpdateTagsForDomain</a>	Grants permission to add or update tags for a specified domain	Tagging			
<a href="#">ViewBilling</a>	Grants permission to get all the domain-related billing records for the current AWS account for a specified period	Read			

## Resource types defined by Amazon Route 53 Domains

Amazon Route 53 Domains does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon Route 53 Domains, specify "\*" in your policy.

## Condition keys for Amazon Route 53 Domains

Route 53 Domains has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Route 53 Profiles

Amazon Route 53 Profiles (service prefix: `route53profiles`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53 Profiles](#)
- [Resource types defined by Amazon Route 53 Profiles](#)
- [Condition keys for Amazon Route 53 Profiles](#)

## Actions defined by Amazon Route 53 Profiles

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Profile</a>	Grants permission to associates a Profile to the customer VPC	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">route53profiles:ResourceIds</a>	
<a href="#">AssociateResourceTypeProfile</a>	Grants permission to associates a resource, such as DNS Firewall rule group, private hosted zone, resolver rule, etc. to a specified Profile	Write		<a href="#">route53profiles:ResourceTypes</a> <a href="#">route53profiles:HostedZoneDomains</a> <a href="#">route53profiles:ResolverRuleDomains</a> <a href="#">route53profiles:FirewallRuleGroupPriority</a> <a href="#">route53profiles:ResourceArns</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProfile</a>	Grants permission to create a new Profile resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteProfile</a>	Grants permission to delete a Profile specified by the ProfileId	Write			
<a href="#">DisassociateProfile</a>	Grants permission to delete an association between a customer VPC and the specified Profile	Write		<a href="#">route53profiles:ResourceIds</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateResourceFromProfile</a>	Grants permission to delete the association between the resource. such as DNS Firewall rule group, private hosted zone, resolver rule, etc. and the specified Profile	Write		<a href="#">route53profiles:ResourceTypes</a> <a href="#">route53profiles:HostedZoneDomains</a> <a href="#">route53profiles:ResolverRuleDomains</a> <a href="#">route53profiles:FirewallRuleGroupPriority</a> <a href="#">route53profiles:ResourceArns</a>	
<a href="#">GetProfile</a>	Grants permission to get a Profile	Read			
<a href="#">GetProfileAssociation</a>	Grants permission to get a Profile to a VPC association specified by the Profile association ID	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetProfilePolicy</a> [permission only]	Grants permission to read the RAM access control policy for a Profile	Read	<a href="#">profile*</a>		
<a href="#">GetProfileResourceAssociation</a>	Grants permission to get a Profile resource association based on the ProfileResourceAssociationId	Read			
<a href="#">ListProfileAssociations</a>	Grants permission to list all VPCs the specified Profile is associated to	List			
<a href="#">ListProfileResourceAssociations</a>	Grants permission to list all the associations between the resources, such as DNS Firewall rule groups, private hosted zones, resolver rules, etc. for the given Profile ID	List			
<a href="#">ListProfiles</a>	Grants permission to list all the Profiles created by, and shared to the customer	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags associated with the resource	List			
<a href="#">PutProfilePolicy</a> [permission only]	Grants permission to define the RAM access control policy for a Profile	Write	<a href="#">profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add a tag to the given resource	Tagging	<a href="#">profile</a>		
			<a href="#">profile-association</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to delete a tag from the given resource	Tagging	<a href="#">profile</a>		
			<a href="#">profile-association</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProfileResourceAssociation</a>	Grants permission to update the Profile resource association name or the resource properties or both, if both name and resource properties are null, the api returns the existing Profile resource association	Write		<a href="#">route53profiles:Resources</a> <a href="#">route53profiles:HostedZones</a> <a href="#">route53profiles:ResolverRuleDomains</a> <a href="#">route53profiles:FirewallRuleGroupPriority</a>	

## Resource types defined by Amazon Route 53 Profiles

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">profile</a>	arn:\${Partition}:route53profiles:\${Region}:\${Account}:profile/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">profile-association</a>	arn:\${Partition}:route53profiles:\${Region}:\${Account}:profile-association/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Route 53 Profiles

Amazon Route 53 Profiles defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">route53profiles:FirewallRuleGroupPriority</a>	Filters access by priority range of a Firewall Rule Group	Numeric
<a href="#">route53profiles:HostedZoneDomains</a>	Filters access by Hosted Zone domains	String

Condition keys	Description	Type
<a href="#">stedZoneD</a> <a href="#">omains</a>		
<a href="#">route53pr</a> <a href="#">ofiles:Re</a> <a href="#">solverRul</a> <a href="#">eDomains</a>	Filters access by Resolver Rule domains	String
<a href="#">route53pr</a> <a href="#">ofiles:Re</a> <a href="#">sourceArns</a>	Filters access by specific resource ARNs	ARN
<a href="#">route53pr</a> <a href="#">ofiles:Re</a> <a href="#">sourceIds</a>	Filters access by given VPCs	String
<a href="#">route53pr</a> <a href="#">ofiles:Re</a> <a href="#">sourceTypes</a>	Filters access by specific resource type. Possible options include 'HostedZone', 'FirewallRuleGroup', 'Resolver QueryLoggingConfig', 'ResolverRule', and 'VpcEndpoint'	String

## Actions, resources, and condition keys for Amazon Route 53 Recovery Cluster

Amazon Route 53 Recovery Cluster (service prefix: `route53-recovery-cluster`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53 Recovery Cluster](#)

- [Resource types defined by Amazon Route 53 Recovery Cluster](#)
- [Condition keys for Amazon Route 53 Recovery Cluster](#)

## Actions defined by Amazon Route 53 Recovery Cluster

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRoutingControlState</a>	Grants permission to get a routing control state	Read	<a href="#">routingcontrol*</a>		
<a href="#">ListRoutingControls</a>	Grants permission to list routing controls	Read			
<a href="#">UpdateRoutingControlState</a>	Grants permission to update a routing control state	Write	<a href="#">routingcontrol*</a>		
				<a href="#">route53-recovery-cluster:AllowSafetyRulesOverrides</a>	
<a href="#">UpdateRoutingControlStates</a>	Grants permission to update a batch of routing control states	Write	<a href="#">routingcontrol*</a>		
				<a href="#">route53-recovery-cluster:Al</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">lowSafetyRulesOverrides</a>	

## Resource types defined by Amazon Route 53 Recovery Cluster

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">routingcontrol</a>	arn:\${Partition}:route53-recovery-control::\${Account}:controlpanel/\${ControlPanelId}/routingcontrol/\${RoutingControlId}	

## Condition keys for Amazon Route 53 Recovery Cluster

Amazon Route 53 Recovery Cluster defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">route53-recovery-cluster:AllowSafetyRulesOverrides</a>	Override safety rules to allow routing control state updates	Bool

## Actions, resources, and condition keys for Amazon Route 53 Recovery Controls

Amazon Route 53 Recovery Controls (service prefix: `route53-recovery-control-config`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53 Recovery Controls](#)
- [Resource types defined by Amazon Route 53 Recovery Controls](#)
- [Condition keys for Amazon Route 53 Recovery Controls](#)

## Actions defined by Amazon Route 53 Recovery Controls


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create a cluster	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateControlPanel</a>	Grants permission to create a control panel	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRoutingControl</a>	Grants permission to create a routing control	Write	<a href="#">cluster*</a>		
<a href="#">CreateSafetyRule</a>	Grants permission to create a safety rule	Write	<a href="#">cluster*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteCluster</a>	Grants permission to delete a cluster	Write	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteControlPanel</a>	Grants permission to delete a control panel	Write	<a href="#">controlpanel*</a>		
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete the RAM access control policy for a cluster	Permissions management	<a href="#">cluster*</a>		
<a href="#">DeleteRoutingControl</a>	Grants permission to delete a routing control	Write	<a href="#">routingcontrol*</a>		
<a href="#">DeleteSafetyRule</a>	Grants permission to delete a safety rule	Write	<a href="#">safetyrule*</a>		
<a href="#">DescribeCluster</a>	Grants permission to describe a cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeControlPanel</a>	Grants permission to describe a control panel	Read	<a href="#">controlpanel*</a>		
<a href="#">DescribeRoutingControl</a>	Grants permission to describe a routing control	Read	<a href="#">routingcontrol*</a>		
<a href="#">DescribeSafetyRule</a>	Grants permission to describe a safety rule	Read	<a href="#">safetyrule*</a>		
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy of a cluster	Read	<a href="#">cluster*</a>		
<a href="#">ListAssociatedRoute53HealthChecks</a>	Grants permission to list associated Route 53 health checks	List	<a href="#">routingcontrol*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListClusters</a>	Grants permission to list clusters	Read			
<a href="#">ListControlPanels</a>	Grants permission to list control panels	Read			
<a href="#">ListRoutingControls</a>	Grants permission to list routing controls	Read	<a href="#">controlpanel*</a>		
<a href="#">ListSafetyRules</a>	Grants permission to list safety rules	Read	<a href="#">controlpanel*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">cluster</a>		
			<a href="#">controlpanel</a>		
			<a href="#">safetyrule</a>		
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to define the RAM access control policy for a cluster	Permissions management	<a href="#">cluster*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">cluster</a>		
			<a href="#">controlpanel</a>		
			<a href="#">safetyrule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">cluster</a> <a href="#">controlpanel</a> <a href="#">safetyrule</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCluster</a>	Grants permission to update a cluster	Write	<a href="#">cluster*</a>		
<a href="#">UpdateControlPanel</a>	Grants permission to update a cluster	Write	<a href="#">controlpanel*</a>		
<a href="#">UpdateRoutingControl</a>	Grants permission to update a routing control	Write	<a href="#">routingcontrol*</a>		
<a href="#">UpdateSafetyRule</a>	Grants permission to update a safety rule	Write	<a href="#">safetyrule*</a>		

## Resource types defined by Amazon Route 53 Recovery Controls

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cluster</a>	arn:\${Partition}:route53-recovery-control::\${Account}:cluster/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">controlpanel</a>	arn:\${Partition}:route53-recovery-control::\${Account}:controlpanel/\${ControlPanelId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">routingcontrol</a>	arn:\${Partition}:route53-recovery-control::\${Account}:controlpanel/\${ControlPanelId}/routingcontrol/\${RoutingControlId}	
<a href="#">safetyrule</a>	arn:\${Partition}:route53-recovery-control::\${Account}:controlpanel/\${ControlPanelId}/safetyrule/\${SafetyRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Route 53 Recovery Controls

Amazon Route 53 Recovery Controls defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).



Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Route 53 Recovery Readiness

Amazon Route 53 Recovery Readiness (service prefix: `route53-recovery-readiness`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53 Recovery Readiness](#)
- [Resource types defined by Amazon Route 53 Recovery Readiness](#)
- [Condition keys for Amazon Route 53 Recovery Readiness](#)

## Actions defined by Amazon Route 53 Recovery Readiness

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCell</a>	Grants permission to create a new cell	Write	<a href="#">cell*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateCrossAccountAuthorization</a>	Grants permission to create a cross account authorization	Write			
<a href="#">CreateReadinessCheck</a>	Grants permission to create a readiness check	Write	<a href="#">readinesscheck*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateRecoveryGroup</a>	Grants permission to create a recovery group	Write	<a href="#">recoverygroup*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateResourceSet</a>	Grants permission to create a resource set	Write	<a href="#">resources*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteCell</a>	Grants permission to delete a cell	Write	<a href="#">cell*</a>		
<a href="#">DeleteCrossAccountAuthorization</a>	Grants permission to delete a cross account authorization	Write			
<a href="#">DeleteReadinessCheck</a>	Grants permission to delete a readiness check	Write	<a href="#">readinesscheck*</a>		
<a href="#">DeleteRecoveryGroup</a>	Grants permission to delete a recovery group	Write	<a href="#">recoverygroup*</a>		
<a href="#">DeleteResourceSet</a>	Grants permission to delete a resource set	Write	<a href="#">resources*</a>		
<a href="#">GetArchitectureRecommendations</a>	Grants permission to get architecture recommendations for a recovery group	Read	<a href="#">recoverygroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCell</a>	Grants permission to get information about a cell	Read	<a href="#">cell*</a>		
<a href="#">GetCellReadinessSummary</a>	Grants permission to get a readiness summary for a cell	Read	<a href="#">cell*</a>		
<a href="#">GetReadinessCheck</a>	Grants permission to get information about a readiness check	Read	<a href="#">readinesscheck*</a>		
<a href="#">GetReadinessCheckResourceStatus</a>	Grants permission to get the readiness status for an individual resource	Read	<a href="#">readinesscheck*</a>		
<a href="#">GetReadinessCheckStatus</a>	Grants permission to get the status of a readiness check (for a resource set)	Read	<a href="#">readinesscheck*</a>		
<a href="#">GetRecoveryGroup</a>	Grants permission to get information about a recovery group	Read	<a href="#">recoverygroup*</a>		
<a href="#">GetRecoveryGroupReadinessSummary</a>	Grants permission to get a readiness summary for a recovery group	Read	<a href="#">recoverygroup*</a>		
<a href="#">GetResourceSet</a>	Grants permission to get information about a resource set	Read	<a href="#">resourceset*</a>		
<a href="#">ListCells</a>	Grants permission to list cells	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCrossAccountAuthorizations</a>	Grants permission to list cross account authorizations	Read			
<a href="#">ListReadinessChecks</a>	Grants permission to list readiness checks	Read			
<a href="#">ListRecoveryGroups</a>	Grants permission to list recovery groups	Read			
<a href="#">ListResourceSets</a>	Grants permission to list resource sets	Read			
<a href="#">ListRules</a>	Grants permission to list readiness rules	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			
<a href="#">TagResource</a>	Grants permission to add a tag to a resource	Tagging	<a href="#">cell</a> <a href="#">readinesscheck</a> <a href="#">recoverygroup</a> <a href="#">resourceset</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">cell</a>		
			<a href="#">readinesscheck</a>		
			<a href="#">recoverygroup</a>		
			<a href="#">resourceset</a>		
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateCell</a>	Grants permission to update a cell	Write	<a href="#">cell*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateReadinessCheck</a>	Grants permission to update a readiness check	Write	<a href="#">readinesscheck*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateRecoveryGroup</a>	Grants permission to update a recovery group	Write	<a href="#">recoverygroup*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateResourceSet</a>	Grants permission to update a resource set	Write	<a href="#">resourceset*</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon Route 53 Recovery Readiness

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">readinesscheck</a>	arn:\${Partition}:route53-recovery-readiness::\${Account}:readiness-check/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">resourceset</a>	arn:\${Partition}:route53-recovery-readiness::\${Account}:resource-set/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cell</a>	arn:\${Partition}:route53-recovery-readiness::\${Account}:cell/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">recoverygroup</a>	arn:\${Partition}:route53-recovery-readiness::\${Account}:recovery-group/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Route 53 Recovery Readiness

Amazon Route 53 Recovery Readiness defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Route 53 Resolver

Amazon Route 53 Resolver (service prefix: `route53resolver`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Route 53 Resolver](#)
- [Resource types defined by Amazon Route 53 Resolver](#)
- [Condition keys for Amazon Route 53 Resolver](#)

## Actions defined by Amazon Route 53 Resolver

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate FirewallRuleGroup</a>	Grants permission to associate an Amazon VPC with a specified firewall rule group	Write	<a href="#">firewall-rule-group-association*</a>		ec2:DescribeVpcs
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">Associate ResolverEndpointIpAddress</a>	Grants permission to associate a specified IP address with a Resolver endpoint. This is an IP address that DNS queries pass through on the way to your network (outbound) or your VPCs (inbound)	Write	<a href="#">resolver-endpoint*</a>		ec2:CreateNetworkInterface  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets
<a href="#">Associate ResolverQueryLogConfig</a>	Grants permission to associate an Amazon VPC with a specified query logging configuration	Write	<a href="#">resolver-query-log-config*</a>		ec2:DescribeVpcs
<a href="#">Associate ResolverRule</a>	Grants permission to associate a specified Resolver rule with a specified VPC	Write	<a href="#">resolver-rule*</a>		ec2:DescribeVpcs
<a href="#">Create FirewallDomainList</a>	Grants permission to create a Firewall domain list	Write	<a href="#">firewall-domain-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateFirewallRule</a>	Grants permission to create a Firewall rule within a Firewall rule group	Write	<a href="#">firewall-domain-list*</a>		
			<a href="#">firewall-rule-group*</a>		
<a href="#">CreateFirewallRuleGroup</a>	Grants permission to create a Firewall rule group	Write	<a href="#">firewall-rule-group*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateOutpostResolver</a>	Grants permission to create a Route 53 Resolver on Outposts	Write	<a href="#">outpost-resolver*</a>		outposts: GetOutpost

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateResolverEndpoint</a>	Grants permission to create a Resolver endpoint. There are two types of Resolver endpoints, inbound and outbound	Write	<a href="#">resolver-endpoint*</a>		ec2:CreateNetworkInterface  ec2:DescribeNetworkInterfaces  ec2:DescribeSecurityGroups  ec2:DescribeSubnets  ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateResolverQueryLogConfig</a>	Grants permission to create a Resolver query logging configuration, which defines where you want Resolver to save DNS query logs that originate in your VPCs	Write	<a href="#">resolver-query-log-config*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateResolverRule</a>	Grants permission to define how to route queries originating from your VPC out of the VPC	Write	<a href="#">resolver-rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFirewallDomainList</a>	Grants permission to delete a Firewall domain list	Write	<a href="#">firewall-domain-list*</a>		
<a href="#">DeleteFirewallRule</a>	Grants permission to delete a Firewall rule within a Firewall rule group	Write	<a href="#">firewall-domain-list*</a>		
			<a href="#">firewall-rule-group*</a>		
<a href="#">DeleteFirewallRuleGroup</a>	Grants permission to delete a Firewall rule group	Write	<a href="#">firewall-rule-group*</a>		
<a href="#">DeleteOutpostResolver</a>	Grants permission to delete a Route 53 Resolver on Outposts	Write	<a href="#">outpost-resolver*</a>		
<a href="#">DeleteResolverEndpoint</a>	Grants permission to delete a Resolver endpoint. The effect of deleting a Resolver endpoint depends on whether it's an inbound or an outbound endpoint	Write	<a href="#">resolver-endpoint*</a>		ec2:DeleteNetworkInterface  ec2:DescribeNetworkInterfaces
<a href="#">DeleteResolverQueryLogConfig</a>	Grants permission to delete a Resolver query logging configuration	Write	<a href="#">resolver-query-log-config*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResolverRule</a>	Grants permission to delete a Resolver rule	Write	<a href="#">resolver-rule*</a>		
<a href="#">DisassociateFirewallRuleGroup</a>	Grants permission to remove the association between a specified Firewall rule group and a specified VPC	Write	<a href="#">firewall-rule-group-association*</a>		
<a href="#">DisassociateResolverEndpointIpAddress</a>	Grants permission to remove a specified IP address from a Resolver endpoint. This is an IP address that DNS queries pass through on the way to your network (outbound) or your VPCs (inbound)	Write	<a href="#">resolver-endpoint*</a>		ec2:DeleteNetworkInterface  ec2:DescribeNetworkInterfaces
<a href="#">DisassociateResolverQueryLoggingConfig</a>	Grants permission to remove the association between a specified Resolver query logging configuration and a specified VPC	Write	<a href="#">resolver-query-log-config*</a>		
<a href="#">DisassociateResolverRule</a>	Grants permission to remove the association between a specified Resolver rule and a specified VPC	Write	<a href="#">resolver-rule*</a>		
<a href="#">GetFirewallConfig</a>	Grants permission to get information about a specified Firewall config	Read	<a href="#">firewall-config*</a>		ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFirewallDomainList</a>	Grants permission to get information about a specified Firewall domain list	Read	<a href="#">firewall-domain-list*</a>		
<a href="#">GetFirewallRuleGroup</a>	Grants permission to get information about a specified Firewall rule group	Read	<a href="#">firewall-rule-group*</a>		
<a href="#">GetFirewallRuleGroupAssociation</a>	Grants permission to get information about an association between a specified Firewall rule group and a VPC	Read	<a href="#">firewall-rule-group-association*</a>		
<a href="#">GetFirewallRuleGroupPolicy</a>	Grants permission to get information about a specified Firewall rule group policy, which specifies the Firewall rule group operations and resources that you want to allow another AWS account to use	Read	<a href="#">firewall-rule-group*</a>		
<a href="#">GetOutpostsResolver</a>	Grants permission to get information about a specified Route 53 Resolver on Outposts	Read	<a href="#">outposts-resolver*</a>		
<a href="#">GetResolverConfig</a>	Grants permission to get the Resolver Config status within the specified resource	Read	<a href="#">resolver-config*</a>		ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResolverDnssecConfig</a>	Grants permission to get the DNSSEC validation support status for DNS queries within the specified resource	Read	<a href="#">resolver-dnssec-config*</a>		
<a href="#">GetResolverEndpoint</a>	Grants permission to get information about a specified Resolver endpoint, such as whether it's an inbound or an outbound endpoint, and the IP addresses in your VPC that DNS queries are forwarded to on the way into or out of your VPC	Read	<a href="#">resolver-endpoint*</a>		
<a href="#">GetResolverQueryLogConfig</a>	Grants permission to get information about a specified Resolver query logging configuration, such as the number of VPCs that the configuration is logging queries for and the location that logs are sent to	Read	<a href="#">resolver-query-log-config*</a>		ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResolverQueryLoggingAssociation</a>	Grants permission to get information about a specified association between a Resolver query logging configuration and an Amazon VPC. When you associate a VPC with a query logging configuration, Resolver logs DNS queries that originate in that VPC	Read			
<a href="#">GetResolverQueryLoggingPolicy</a>	Grants permission to get information about a specified Resolver query logging policy, which specifies the Resolver query logging operations and resources that you want to allow another AWS account to use	Read	<a href="#">resolver-query-log-config*</a>		
<a href="#">GetResolverRule</a>	Grants permission to get information about a specified Resolver rule, such as the domain name that the rule forwards DNS queries for and the IP address that queries are forwarded to	Read	<a href="#">autodefined-rule</a>  <a href="#">resolver-rule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResolverRuleAssociation</a>	Grants permission to get information about an association between a specified Resolver rule and a VPC	Read	<a href="#">autodefined-rule</a> <a href="#">resolver-rule</a>		
<a href="#">GetResolverRulePolicy</a>	Grants permission to get information about a Resolver rule policy, which specifies the Resolver operations and resources that you want to allow another AWS account to use	Read	<a href="#">resolver-rule*</a>		
<a href="#">ImportFirewallDomains</a>	Grants permission to add, remove or replace Firewall domains in a Firewall domain list	Write	<a href="#">firewall-domain-list*</a>		
<a href="#">ListFirewallConfigs</a>	Grants permission to list all the Firewall config that current AWS account is able to check	List			ec2:DescribeVpcs
<a href="#">ListFirewallDomainLists</a>	Grants permission to list all the Firewall domain list that current AWS account is able to use	List			
<a href="#">ListFirewallDomains</a>	Grants permission to list all the Firewall domain under a specified Firewall domain list	List	<a href="#">firewall-domain-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFirewallRuleGroupAssociations</a>	Grants permission to list information about associations between Amazon VPCs and Firewall rule group	List			
<a href="#">ListFirewallRuleGroups</a>	Grants permission to list all the Firewall rule group that current AWS account is able to use	List			
<a href="#">ListFirewallRules</a>	Grants permission to list all the Firewall rule under a specified Firewall rule group	List	<a href="#">firewall-rule-group*</a>		
<a href="#">ListOutpostResolvers</a>	Grants permission to list all instances of Route 53 Resolver on Outposts that were created using the current AWS account	List			
<a href="#">ListResolverConfigs</a>	Grants permission to list Resolver Config statuses	List	<a href="#">resolver-config*</a>		ec2:DescribeVpcs
<a href="#">ListResolverDnssecConfigs</a>	Grants permission to list the DNSSEC validation support status for DNS queries	List	<a href="#">resolver-dnssec-config*</a>		
<a href="#">ListResolverEndpointIPAddresses</a>	Grants permission to list the IP addresses that DNS queries pass through on the way to your network (outbound) or your VPCs (inbound) for a specified Resolver endpoint	List	<a href="#">resolver-endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResolverEndpoints</a>	Grants permission to list all the Resolver endpoints that were created using the current AWS account	List			
<a href="#">ListResolverQueryLogConfigAssociations</a>	Grants permission to list information about associations between Amazon VPCs and query logging configurations	List			ec2:DescribeVpcs
<a href="#">ListResolverQueryLogConfigs</a>	Grants permission to list information about the specified query logging configurations, which define where you want Resolver to save DNS query logs and specify the VPCs that you want to log queries for	List			ec2:DescribeVpcs
<a href="#">ListResolverRuleAssociations</a>	Grants permission to list the associations that were created between Resolver rules and VPCs using the current AWS account	List			ec2:DescribeVpcs
<a href="#">ListResolverRules</a>	Grants permission to list the Resolver rules that were created using the current AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list the tags that you associated with the specified resource	Read	<a href="#">firewall-domain-list</a>		
			<a href="#">firewall-rule-group</a>		
			<a href="#">firewall-rule-group-association</a>		
			<a href="#">outpost-resolver</a>		
			<a href="#">resolver-endpoint</a>		
			<a href="#">resolver-query-log-config</a>		
			<a href="#">resolver-rule</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFirewallRuleGroupPolicy</a>	Grants permission to specify an AWS account that you want to share a Firewall rule group with, the Firewall rule group that you want to share, and the operations that you want the account to be able to perform on the configuration	Permissions management	<a href="#">firewall-rule-group*</a>		
<a href="#">PutResolverQueryLogConfigPolicy</a>	Grants permission to specify an AWS account that you want to share a query logging configuration with, the query logging configuration that you want to share, and the operations that you want the account to be able to perform on the configuration	Permissions management	<a href="#">resolver-query-log-config*</a>		
<a href="#">PutResolverRulePolicy</a>	Grants permission to specify an AWS account that you want to share rules with, the Resolver rules that you want to share, and the operations that you want the account to be able to perform on those rules	Permissions management	<a href="#">resolver-rule*</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tags to a specified resource	Tagging	<a href="#">firewall-config</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">firewall-domain-list</a>		
			<a href="#">firewall-rule-group</a>		
			<a href="#">firewall-rule-group-association</a>		
			<a href="#">outpost-resolver</a>		
			<a href="#">resolver-dnssec-config</a>		
			<a href="#">resolver-endpoint</a>		
			<a href="#">resolver-query-log-config</a>		
			<a href="#">resolver-rule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a specified resource	Tagging	<a href="#">firewall-config</a>  <a href="#">firewall-domain-list</a>  <a href="#">firewall-rule-group</a>  <a href="#">firewall-rule-group-association</a>  <a href="#">outpost-resolver</a>  <a href="#">resolver-dnssec-config</a>  <a href="#">resolver-endpoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">resolver-query-log-config</a>		
			<a href="#">resolver-rule</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateFirewallConfig</a>	Grants permission to update selected settings for an Firewall config	Write	<a href="#">firewall-config*</a>		ec2:DescribeVpcs
<a href="#">UpdateFirewallDomains</a>	Grants permission to add, remove or replace Firewall domains in a Firewall domain list	Write	<a href="#">firewall-domain-list*</a>		
<a href="#">UpdateFirewallRule</a>	Grants permission to update selected settings for an Firewall rule in a Firewall rule group	Write	<a href="#">firewall-domain-list*</a>		
			<a href="#">firewall-rule-group*</a>		
<a href="#">UpdateFirewallRuleGroupAssociation</a>	Grants permission to update selected settings for an Firewall rule group association	Write	<a href="#">firewall-rule-group-association*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOutpostResolver</a>	Grants permission to update selected settings for a specified Route 53 Resolver on Outposts	Write	<a href="#">outpost-resolver*</a>		
<a href="#">UpdateResolverConfig</a>	Grants permission to update the Resolver Config status within the specified resource	Write	<a href="#">resolver-config*</a>		ec2:DescribeVpcs
<a href="#">UpdateResolverDnssecConfig</a>	Grants permission to update the DNSSEC validation support status for DNS queries within the specified resource	Write	<a href="#">resolver-dnssec-config*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateResolverEndpoint</a>	Grants permission to update selected settings for an inbound or an outbound Resolver endpoint	Write	<a href="#">resolver-endpoint*</a>		ec2:AssignIpv6Addresses  ec2:DescribeNetworkInterfaces  ec2:DescribeSubnets  ec2:ModifyNetworkInterfaceAttribute  ec2:UnassignIpv6Addresses
<a href="#">UpdateResolverRule</a>	Grants permission to update settings for a specified Resolver rule	Write	<a href="#">resolver-rule*</a>		

## Resource types defined by Amazon Route 53 Resolver

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">resolver-dnssec-config</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:resolver-dnssec-config/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resolver-query-log-config</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:resolver-query-log-config/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resolver-rule</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:resolver-rule/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">autodefined-rule</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:autodefined-rule/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">resolver-endpoint</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:resolver-endpoint/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">firewall-rule-group</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:firewall-rule-group/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">firewall-rule-group-association</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:firewall-rule-group-association/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">firewall-domain-list</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:firewall-domain-list/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">firewall-config</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:firewall-config/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">resolver-config</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:resolver-config/\${ResourceId}	
<a href="#">outpost-resolver</a>	arn:\${Partition}:route53resolver:\${Region}:\${Account}:outpost-resolver/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Route 53 Resolver

Amazon Route 53 Resolver defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Route53 Global Resolver

AWS Route53 Global Resolver (service prefix: `route53globalresolver`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.



## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Route53 Global Resolver](#)
- [Resource types defined by AWS Route53 Global Resolver](#)
- [Condition keys for AWS Route53 Global Resolver](#)

## Actions defined by AWS Route53 Global Resolver

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
AllowVendedLogDeliveryForResource [permission only]	Grants permission to deliver logs for a global resolver	Permissions management	<a href="#">global-resolver*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Associate HostedZone</a>	Grants permission to associate a resource to a hosted zone	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCreateFirewallRule</a>	Grants permission to create multiple firewall rules	Write			
<a href="#">BatchDeleteFirewallRule</a>	Grants permission to delete multiple firewall rules	Write			
<a href="#">BatchUpdateFirewallRule</a>	Grants permission to update multiple firewall rules	Write			
<a href="#">CreateAccessSource</a>	Grants permission to create an access source	Write	<a href="#">dns-view*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAccessToken</a>	Grants permission to create an access token	Write	<a href="#">access-token*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDNSView</a>	Grants permission to create a dns view	Write	<a href="#">dns-view*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFirewallDomainList</a>	Grants permission to create a firewall domain list	Write	<a href="#">firewall-domain-list*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFirewallRule</a>	Grants permission to create a firewall rule	Write	<a href="#">dns-view*</a> <a href="#">firewall-domain-list</a>		
<a href="#">CreateGlobalResolver</a>	Grants permission to create a global resolver	Write	<a href="#">global-resolver*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccessSource</a>	Grants permission to delete an access source	Write	<a href="#">access-source*</a>		
<a href="#">DeleteAccessToken</a>	Grants permission to delete an access token	Write	<a href="#">access-token*</a>		
<a href="#">DeleteDNSView</a>	Grants permission to delete a dns view	Write	<a href="#">dns-view*</a>		
<a href="#">DeleteFirewallDomainList</a>	Grants permission to delete a firewall domain list	Write	<a href="#">firewall-domain-list*</a>		
<a href="#">DeleteFirewallRule</a>	Grants permission to delete a firewall rule	Write			
<a href="#">DeleteGlobalResolver</a>	Grants permission to delete a global resolver	Write	<a href="#">global-resolver*</a>		
<a href="#">DisableDNSView</a>	Grants permission to disable a dns view	Write	<a href="#">dns-view*</a>		
<a href="#">DisassociateHostedZone</a>	Grants permission to disassociate a hosted zone from a resource	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableDNSView</a>	Grants permission to enable a dns view	Write	<a href="#">dns-view*</a>		
<a href="#">GetAccessSource</a>	Grants permission to get an access source	Read	<a href="#">access-source*</a>		
<a href="#">GetAccessToken</a>	Grants permission to get an access token	Read	<a href="#">access-token*</a>		
<a href="#">GetDNSView</a>	Grants permission to get a dns view	Read	<a href="#">dns-view*</a>		
<a href="#">GetFirewallDomainList</a>	Grants permission to get a firewall domain list	Read	<a href="#">firewall-domain-list*</a>		
<a href="#">GetFirewallRule</a>	Grants permission to get a firewall rule	Read			
<a href="#">GetGlobalResolver</a>	Grants permission to get a global resolver	Read	<a href="#">global-resolver*</a>		
<a href="#">GetHostedZoneAssociation</a>	Grants permission to get a hosted zone association	Read			
<a href="#">GetManagedFirewallDomainList</a>	Grants permission to get a managed firewall domain list	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportFirewallDomains</a>	Grants permission to import firewall domains from an S3 bucket	Write	<a href="#">firewall-domain-list*</a>		s3:GetObject s3:ListBucket
<a href="#">ListAccessSources</a>	Grants permission to list access sources	List			
<a href="#">ListAccessTokens</a>	Grants permission to list access tokens	List			
<a href="#">ListDNSViews</a>	Grants permission to list dns views	List			
<a href="#">ListFirewallDomainLists</a>	Grants permission to list firewall domain lists	List			
<a href="#">ListFirewallDomains</a>	Grants permission to list firewall domains	Read	<a href="#">firewall-domain-list*</a>		
<a href="#">ListFirewallRules</a>	Grants permission to list firewall rules	List	<a href="#">dns-view*</a>		
<a href="#">ListGlobalResolvers</a>	Grants permission to list global resolvers	List			
<a href="#">ListHostedZoneAssociations</a>	Grants permission to list hosted zone associations	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListManagedFirewallDomainLists</a>	Grants permission to list managed firewall domain lists	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Write	<a href="#">access-source</a>		
			<a href="#">access-token</a>		
			<a href="#">dns-view</a>		
			<a href="#">firewall-domain-list</a>		
			<a href="#">global-resolver</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">access-source</a>		
			<a href="#">access-token</a>		
			<a href="#">dns-view</a>		
			<a href="#">firewall-domain-list</a>		
			<a href="#">global-resolver</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">access-source</a>		
			<a href="#">access-token</a>		
			<a href="#">dns-view</a>		
			<a href="#">firewall-domain-list</a>		
			<a href="#">global-resolver</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessSource</a>	Grants permission to update an access source	Write	<a href="#">access-source*</a>		
<a href="#">UpdateAccessToken</a>	Grants permission to update an access token	Write	<a href="#">access-token*</a>		
<a href="#">UpdateDNSView</a>	Grants permission to update a dns view	Write	<a href="#">dns-view*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFirewallDomains</a>	Grants permission to update firewall domains	Write	<a href="#">firewall-domain-list*</a>		
<a href="#">UpdateFirewallRule</a>	Grants permission to update an firewall rule	Write			
<a href="#">UpdateGlobalResolver</a>	Grants permission to update a global resolver	Write	<a href="#">global-resolver*</a>		
<a href="#">UpdateHostedZoneAssociation</a>	Grants permission to update a hosted zone association	Write			

## Resource types defined by AWS Route53 Global Resolver

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">access-source</a>	arn:\${Partition}:route53globalresolver::\${Account}:access-source/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">access-token</a>	arn:\${Partition}:route53globalresolver::\${Account}:access-token/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">dns-view</a>	arn:\${Partition}:route53globalresolver::\${Account}:dns-view/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">firewall-domain-list</a>	arn:\${Partition}:route53globalresolver::\${Account}:firewall-domain-list/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">global-resolver</a>	arn:\${Partition}:route53globalresolver::\${Account}:global-resolver/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Route53 Global Resolver

AWS Route53 Global Resolver defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS RTB Fabric

AWS RTB Fabric (service prefix: `rtbfabric`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS RTB Fabric](#)
- [Resource types defined by AWS RTB Fabric](#)
- [Condition keys for AWS RTB Fabric](#)

### Actions defined by AWS RTB Fabric

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptLink</a>	Grants permission to accept a link invitation from another Gateway	Write	<a href="#">Link*</a>		
<a href="#">CreateInboundExternalLink</a>	Grants permission to create an inbound external link for a responder gateway	Write	<a href="#">Responder Gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateLink</a>	Grants permission to create a new link between RTB applications	Write		<a href="#">aws:RequestTag/ \${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateOutboundExternalLink</a>	Grants permission to create an outbound external link for a requester gateway to connect to external public responder endpoints	Write	<a href="#">RequesterGateway*</a>	<a href="#">aws:RequestTag/ \${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateRequesterGateway</a>	Grants permission to create a requester gateway	Write		<a href="#">aws:RequestTag/ \${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateResponderGateway</a>	Grants permission to create a responder gateway	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteInboundExternalLink</a>	Grants permission to delete an inbound external link	Write	<a href="#">InboundExternalLink*</a>		
			<a href="#">ResponderGateway*</a>		
<a href="#">DeleteLink</a>	Grants permission to delete a link between RTB applications	Write	<a href="#">Link*</a>		
<a href="#">DeleteOutboundExternalLink</a>	Grants permission to delete an outbound external link	Write	<a href="#">OutboundExternalLink*</a>		
			<a href="#">RequesterGateway*</a>		
<a href="#">DeleteRequesterGateway</a>	Grants permission to delete a requester gateway	Write	<a href="#">RequesterGateway*</a>		
<a href="#">DeleteResponderGateway</a>	Grants permission to delete a responder gateway	Write	<a href="#">ResponderGateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInboundExternalLink</a>	Grants permission to retrieve information about an inbound external link	Read	<a href="#">InboundExternalLink*</a> <a href="#">ResponderGateway*</a>		
<a href="#">GetLink</a>	Grants permission to retrieve information about a link between RTB applications	Read	<a href="#">Link*</a>		
<a href="#">GetOutboundExternalLink</a>	Grants permission to retrieve information about an outbound external link	Read	<a href="#">OutboundExternalLink*</a> <a href="#">RequesterGateway*</a>		
<a href="#">GetRequesterGateway</a>	Grants permission to retrieve information about a requester gateway	Read	<a href="#">RequesterGateway*</a>		
<a href="#">GetResponderGateway</a>	Grants permission to retrieve information about a responder gateway	Read	<a href="#">ResponderGateway*</a>		
<a href="#">ListLinks</a>	Grants permission to list links associated with an RTB application	List			
<a href="#">ListRequesterGateways</a>	Grants permission to list requester gateways with optional filtering and pagination	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResponderGateways</a>	Grants permission to list responder gateways with optional filtering and pagination	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">InboundExternalLink</a>		
			<a href="#">Link</a>		
			<a href="#">OutboundExternalLink</a>		
			<a href="#">RequesterGateway</a>		
			<a href="#">ResponderGateway</a>		
<a href="#">RejectLink</a>	Grants permission to reject a link request between RTB applications	Write	<a href="#">Link*</a>		
<a href="#">TagResource</a>	Grants permission to assign one or more tags (key-value pairs) to the specified resource	Tagging	<a href="#">InboundExternalLink</a>		
			<a href="#">Link</a>		
			<a href="#">OutboundExternalLink</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Requester Gateway</a>		
			<a href="#">Responder Gateway</a>		
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag or tags from a resource	Tagging	<a href="#">InboundExternalLink</a>		
			<a href="#">Link</a>		
			<a href="#">OutboundExternalLink</a>		
			<a href="#">Requester Gateway</a>		
			<a href="#">Responder Gateway</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateLink</a>	Grants permission to update configuration settings for an existing link	Write	<a href="#">Link*</a>		
<a href="#">UpdateLinkModuleFlow</a>	Grants permission to update a link module flow	Write	<a href="#">Link*</a>		
<a href="#">UpdateRequesterGateway</a>	Grants permission to update a requester gateway	Write	<a href="#">RequesterGateway*</a>		
<a href="#">UpdateResponderGateway</a>	Grants permission to update a responder gateway	Write	<a href="#">ResponderGateway*</a>		

## Resource types defined by AWS RTB Fabric

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">InboundExternalLink</a>	arn:\${Partition}:rtbfabric:\${Region}:\${Account}:gateway/\${GatewayId}/link/\${LinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">rtbfabric:InboundExternalLinkLinkId</a>

Resource types	ARN	Condition keys
		<a href="#">rtbfabric:ResponseGatewayGatewayId</a>
<a href="#">Link</a>	arn:\${Partition}:rtbfabric:\${Region}:\${Account}:gateway/\${GatewayId}/link/\${LinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rtbfabric:LinkLinkId</a> <a href="#">rtbfabric:RequesterGatewayGatewayId</a> <a href="#">rtbfabric:ResponseGatewayGatewayId</a>
<a href="#">OutboundExternalLink</a>	arn:\${Partition}:rtbfabric:\${Region}:\${Account}:gateway/\${GatewayId}/link/\${LinkId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rtbfabric:OutboundExternalLinkLinkId</a> <a href="#">rtbfabric:RequesterGatewayGatewayId</a>
<a href="#">Requester Gateway</a>	arn:\${Partition}:rtbfabric:\${Region}:\${Account}:gateway/\${GatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rtbfabric:RequesterGatewayGatewayId</a>
<a href="#">Responder Gateway</a>	arn:\${Partition}:rtbfabric:\${Region}:\${Account}:gateway/\${GatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">rtbfabric:ResponseGatewayGatewayId</a>

## Condition keys for AWS RTB Fabric

AWS RTB Fabric defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">rtbfabric:InboundExternalLinkGatewayId</a>	Filters access by gateway identifier supporting rtb-gw-* formats	String
<a href="#">rtbfabric:InboundExternalLinkLinkId</a>	Filters access by InboundExternalLink resource linkId identifier	String
<a href="#">rtbfabric:LinkLinkId</a>	Filters access by Link resource linkId identifier	String
<a href="#">rtbfabric:OutboundExternalLinkLinkId</a>	Filters access by OutboundExternalLink resource linkId identifier	String

Condition keys	Description	Type
<a href="#">rtbfabric</a> <a href="#">:RequesterGatewayId</a>	Filters access by gateway identifier supporting rtb-gw-* formats	String
<a href="#">rtbfabric</a> <a href="#">:ResponderGatewayId</a>	Filters access by gateway identifier supporting rtb-gw-* formats	String

## Actions, resources, and condition keys for Amazon S3

Amazon S3 (service prefix: s3) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon S3](#)
- [Resource types defined by Amazon S3](#)
- [Condition keys for Amazon S3](#)

## Actions defined by Amazon S3

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortMultipartUpload</a>	Grants permission to abort a multipart upload	Write	<a href="#">accesspointobject</a>  <a href="#">object</a>	<a href="#">s3:AccessGrantsInstanceArn</a>  <a href="#">s3:authType</a>  <a href="#">s3:ResourceAccount</a>  <a href="#">s3:signatureAge</a>  <a href="#">s3:signatureVersion</a>  <a href="#">s3:TlsVersion</a>  <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">AssociateAccessGrantsIdentityCenter</a>	Grants permission to associate Access Grants identity center	Permissions management	<a href="#">accessgrantsinstance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">BypassGovernanceRetention</a>	Grants permission to allow circumvention of governance-mode object retention settings	Permissions management	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3:RequestObjectTagKeys</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-acl</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">copy-source</a> <a href="#">s3:x-amz-grant-full-control</a> <a href="#">s3:x-amz-grant-read</a> <a href="#">s3:x-amz-grant-read-acp</a> <a href="#">s3:x-amz-grant-write</a> <a href="#">s3:x-amz-grant-write-acp</a> <a href="#">s3:x-amz-metadata-directive</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:x-amz-server-side-encryption</a> <a href="#">s3:x-amz-server-side-encryption-aws-kms-key-id</a> <a href="#">s3:x-amz-server-side-encryption-customer-algorithm</a> <a href="#">s3:x-amz-storage-class</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">website-redirect-location</a>	
<a href="#">CreateAccessGrant</a>	Grants permission to create Access Grant	Permissions management	<a href="#">accessgrantslocation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantScope</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccessGrantsInstance</a>	Grants permission to Create Access Grants Instance	Permissions management	<a href="#">accessgrantsinstance*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccessGrantsLocation</a>	Grants permission to create Access Grants location	Permissions management	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsLocationScope</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAccessPoint</a>	Grants permission to create a new access point	Write	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:locationconstraint</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-acl</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:AccessPointTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAccessPointForObjectLambda</a>	Grants permission to create an object lambda enabled accesspoint	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBucket</a>	Grants permission to create a new bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:locationconstraint</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-acl</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:x-amz-grant-full-control</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:x-amz-grant-read</a> <a href="#">s3:x-amz-grant-read-acp</a> <a href="#">s3:x-amz-grant-write</a> <a href="#">s3:x-amz-grant-write-acp</a> <a href="#">s3:x-amz-bucket-name</a> <a href="#">s3:x-amz-object-ownership</a> <a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBucketMetadataTableConfiguration</a>	Grants permission to create a new S3 Metadata configuration for a specified general purpose bucket	Write	<a href="#">bucket*</a>		kms:DescribeKey  s3tables:CreateNamespace  s3tables:CreateTable  s3tables:CreateTableBucket  s3tables:GetTable  s3tables:PutTableBucketPolicy  s3tables:PutTableEncryption  s3tables:PutTablePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateJob</a>	Grants permission to create a new Amazon S3 Batch Operations job	Write		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:RequestJobPriority</a> <a href="#">s3:RequestJobOperation</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">CreateMultiRegionAccessPoint</a>	Grants permission to create a new Multi-Region Access Point	Write	<a href="#">multiregionaccesspoint*</a>	<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStorageLensGroup</a>	Grants permission to create an Amazon S3 Storage Lens group	Write		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAccessGrant</a>	Grants permission to delete Access Grant	Permissions management	<a href="#">accessgrant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantScope</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccessGrantsInstance</a>	Grants permission to Delete Access Grants Instance	Permissions management	<a href="#">accessgrantsinstance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccessGrantsInstanceResourcePolicy</a>	Grants permission to read Access grants instance resource policy	Permissions management	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccessGrantsLocation</a>	Grants permission to delete Access Grants location	Permissions management	<a href="#">accessgrantslocation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsLocationScope</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccessPoint</a>	Grants permission to delete the access point named in the URI	Write	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessPointTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccessPointForObjectLambda</a>	Grants permission to delete the object lambda enabled access point named in the URI	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccessPointPolicy</a>	Grants permission to delete the policy on a specified access point	Permissions management	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessPointTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccessPointPolicyForObjectLambda</a>	Grants permission to delete the policy on a specified object lambda enabled access point	Permissions management	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBucket</a>	Grants permission to delete the bucket named in the URI	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBucketMetadataConfiguration</a>	Grants permission to delete the S3 Metadata configuration for a specified general purpose bucket	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBucketPolicy</a>	Grants permission to delete the policy on a specified bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteBucketWebsite</a>	Grants permission to remove the website configuration for a bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteJobTagging</a>	Grants permission to remove tags from an existing Amazon S3 Batch Operations job	Tagging	<a href="#">job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:ExistingJobPriority</a> <a href="#">s3:ExistingJobOperation</a>	
<a href="#">DeleteMultiRegionAccessPoint</a>	Grants permission to delete the Multi-Region Access Point named in the URI	Write	<a href="#">multiregionaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">DeleteObject</a>	Grants permission to remove the null version of an object and insert a delete marker, which becomes the current version of the object	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:if-match</a>	
<a href="#">DeleteObjectTagging</a>	Grants permission to use the tagging subresource to remove the entire tag set from the specified object	Tagging	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteObjectVersion</a>	Grants permission to remove a specific version of an object	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteObjectVersionTagging</a>	Grants permission to remove the entire tag set for a specific version of the object	Tagging	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteStorageLensConfiguration</a>	Grants permission to delete an existing Amazon S3 Storage Lens configuration	Write	<a href="#">storageLensConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteStorageLensConfigurationTagging</a>	Grants permission to remove tags from an existing Amazon S3 Storage Lens configuration	Tagging	<a href="#">storageLensConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DeleteStorageLensGroup</a>	Grants permission to delete an existing S3 Storage Lens group	Write	<a href="#">storagegroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeJob</a>	Grants permission to retrieve the configuration parameters and status for a batch operations job	Read	<a href="#">job*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">DescribeMultiRegionAccessPointOperation</a>	Grants permission to retrieve the configurations for a Multi-Region Access Point	Read	<a href="#">multiregionaccesspointrequest*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">DissociateAccessGrantsIdentityCenter</a>	Grants permission to disassociate Access Grants identity center	Permissions management	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccelerateConfiguration</a>	Grants permission to uses the accelerate subresource to return the Transfer Acceleration state of a bucket, which is either Enabled or Suspended	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetAccessGrant</a>	Grants permission to read Access Grant	Read	<a href="#">accessgrant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantScope</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessGrantsInstance</a>	Grants permission to Read Access Grants Instance	Read	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessGrantsInstanceForPrefix</a>	Grants permission to Read Access Grants Instance by prefix	Read	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessGrantsInstanceResourcePolicy</a>	Grants permission to read Access grants instance resource policy	Read	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessGrantsLocation</a>	Grants permission to read Access Grants location	Read	<a href="#">accessgrantslocation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>s3:AccessGrantsLocationScope</u></a> <a href="#"><u>s3:authType</u></a> <a href="#"><u>s3:ResourceAccount</u></a> <a href="#"><u>s3:signatureAge</u></a> <a href="#"><u>s3:signatureVersion</u></a> <a href="#"><u>s3:TlsVersion</u></a> <a href="#"><u>s3:x-amz-content-sha256</u></a> <a href="#"><u>aws:ResourceTag/\${TagKey}</u></a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccessPoint</a>	Grants permission to return configuration information about the specified access point	Read		<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessPointTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessPointConfigurationForObjectLambda</a>	Grants permission to retrieve the configuration of the object lambda enabled access point	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccessPointForObjectLambda</a>	Grants permission to create an object lambda enabled accesspoint	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccessPointPolicy</a>	Grants permission to return the access point policy associated with the specified access point	Read	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessPointTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessPointPolicyForObjectLambda</a>	Grants permission to return the access point policy associated with the specified object lambda enabled access point	Read	<a href="#">objectlambdaaccesspoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccessPointPolicyStatus</a>	Grants permission to return the policy status for a specific access point policy	Read	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessPointTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccessPointPolicyStatusForObjectLambda</a>	Grants permission to return the policy status for a specific object lambda access point policy	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountPublicAccessBlock</a>	Grants permission to retrieve the PublicAccessBlock configuration for an AWS account	Read		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAnalyticsConfiguration</a>	Grants permission to get an analytics configuration from an Amazon S3 bucket, identified by the analytics configuration ID	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketAbac</a>	Grants permission to retrieve ABAC configuration for a general purpose bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketAcl</a>	Grants permission to use the acl subresource to return the access control list (ACL) of an Amazon S3 bucket	Read	<a href="#">accesspoint</a> <a href="#">bucket</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketCORS</a>	Grants permission to return the CORS configuration information set for an Amazon S3 bucket	Read	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketLocation</a>	Grants permission to return the Region that an Amazon S3 bucket resides in	Read	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketLogging</a>	Grants permission to return the logging status of an Amazon S3 bucket and the permissions users have to view or modify that status	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketMetadataTableConfiguration</a>	Grants permission to return the S3 Metadata configuration for a specified general purpose bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketNotification</a>	Grants permission to get the notification configuration of an Amazon S3 bucket	Read	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>s3:authType</u></a> <a href="#"><u>s3:ResourceAccount</u></a> <a href="#"><u>s3:signatureAge</u></a> <a href="#"><u>s3:signatureversion</u></a> <a href="#"><u>s3:TlsVersion</u></a> <a href="#"><u>s3:x-amz-content-sha256</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketObjectLockConfiguration</a>	Grants permission to get the Object Lock configuration of an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:signatureVersion</a>	
<a href="#">GetBucketOwnershipControls</a>	Grants permission to retrieve ownership controls on a bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketPolicy</a>	Grants permission to return the policy of the specified bucket	Read	<a href="#">accesspoint</a> <a href="#">bucket</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketPolicyStatus</a>	Grants permission to retrieve the policy status for a specific Amazon S3 bucket, which indicates whether the bucket is public	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketPublicAccessBlock</a>	Grants permission to retrieve the PublicAccessBlock configuration for an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBucketRequestPayment</a>	Grants permission to return the request payment configuration for an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketTagging</a>	Grants permission to return the tag set associated with an Amazon S3 bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketVersioning</a>	Grants permission to return the versioning state of an Amazon S3 bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetBucketWebsite</a>	Grants permission to return the website configuration for an Amazon S3 bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetDataAccess</a>	Grants permission to get Access	Read	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEncryptionConfiguration</a>	Grants permission to return the default encryption configuration an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIntelligentTieringConfiguration</a>	Grants permission to get an or list all Amazon S3 Intelligent Tiering configuration in a S3 Bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInventoryConfiguration</a>	Grants permission to return an inventory configuration from an Amazon S3 bucket, identified by the inventory configuration ID	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetJobTagging</a>	Grants permission to return the tag set of an existing Amazon S3 Batch Operations job	Read	<a href="#">job*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLifecycleConfiguration</a>	Grants permission to return the lifecycle configuration information set on an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetMetricsConfiguration</a>	Grants permission to get a metrics configuration from an Amazon S3 bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetMultiRegionAccessPoint</a>	Grants permission to return configuration information about the specified Multi-Region Access Point	Read	<a href="#">multiregionaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">GetMultiRegionAccessPointPolicy</a>	Grants permission to return the access point policy associated with the specified Multi-Region Access Point	Read	<a href="#">multiregionaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">GetMultiRegionAccessPointPolicyStatus</a>	Grants permission to return the policy status for a specific Multi-Region Access Point policy	Read	<a href="#">multiregionaccesspoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">GetMultiRegionAccessPointRoutes</a>	Grants permission to return the route configuration for a Multi-Region Access Point	Read	<a href="#">multiregionaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">GetObject</a>	Grants permission to retrieve objects from Amazon S3	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectAcl</a>	Grants permission to return the access control list (ACL) of an object	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectAttributes</a>	Grants permission to retrieve attributes related to a specific object	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectLegalHold</a>	Grants permission to get an object's current Legal Hold status	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectRetention</a>	Grants permission to retrieve the retention settings for an object	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectTagging</a>	Grants permission to return the tag set of an object	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectTorrent</a>	Grants permission to return torrent files from an Amazon S3 bucket	Read	<a href="#">object*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectVersion</a>	Grants permission to retrieve a specific version of an object	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetObjectVersionAcl</a>	Grants permission to return the access control list (ACL) of a specific object version	Read	<a href="#">accesspointobject</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetObjectVersionAttributes</a>	Grants permission to retrieve attributes related to a specific version of an object	Read	<a href="#">accesspointobject</a>		
			<a href="#">object</a>	<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetObjectVersionForReplication</a>	Grants permission to replicate both unencrypted objects and objects encrypted with SSE-S3 or SSE-KMS	Read	<a href="#">object*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetObjectVersionTagging</a>	Grants permission to return the tag set for a specific version of the object	Read	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetObjectVersionTorrent</a>	Grants permission to get Torrent files about a different version using the versionId subresource	Read	<a href="#">object*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetReplicationConfiguration</a>	Grants permission to get the replication configuration information set on an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetStorageLensConfiguration</a>	Grants permission to get an Amazon S3 Storage Lens configuration	Read	<a href="#">storageelensconfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetStorageLensConfigurationTagging</a>	Grants permission to get the tag set of an existing Amazon S3 Storage Lens configuration	Read	<a href="#">storageLensConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetStorageLensDashboard</a>	Grants permission to get an Amazon S3 Storage Lens dashboard	Read	<a href="#">storageelensconfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">GetStorageLensGroup</a>	Grants permission to get an Amazon S3 Storage Lens group	Read	<a href="#">storageelensgroup*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">InitiateReplication</a> [permission only]	Grants permission to initiate the replication process by setting replication status of an object to pending	Write	<a href="#">object*</a>	<a href="#">s3:ResourceAccount</a>	
<a href="#">ListAccessGrants</a>	Grants permission to list Access Grant	List	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccessGrantsInstances</a>	Grants permission to List Access Grants Instances	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">ListAccessGrantsLocations</a>	Grants permission to list Access Grants locations	List	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccessPoints</a>	Grants permission to list access points	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccessPointsForObjectLambda</a>	Grants permission to list object lambda enabled accesspoints	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAllMyBuckets</a>	Grants permission to list all buckets owned by the authenticated sender of the request	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">ListBucket</a>	Grants permission to list some or all of the objects in an Amazon S3 bucket (up to 1000)	List	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:authType</a> <a href="#">s3:delimiter</a> <a href="#">s3:max-keys</a> <a href="#">s3:prefix</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
	Grants permission to list in-progress multipart uploads	List	<a href="#">bucket*</a>		

<b>Actions</b>	<b>Description</b>	<b>Access level</b>	<b>Resource types (*required)</b>	<b>Condition keys</b>	<b>Dependent actions</b>
<a href="#">ListBuckets</a> <a href="#">multipartUploads</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-s3:AccessPointTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListBucketVersions</a>	Grants permission to list metadata about all the versions of objects in an Amazon S3 bucket	List	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:authType</a> <a href="#">s3:delimiter</a> <a href="#">s3:max-keys</a> <a href="#">s3:prefix</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCallerAccessGrants</a>	Grants permission to list caller's Access Grant	List	<a href="#">accessgrantsinstance*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListJobs</a>	Grants permission to list current jobs and jobs that have ended recently	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMultiRegionAccessPoints</a>	Grants permission to list Multi-Region Access Points	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">ListMultipartUploadParts</a>	Grants permission to list the parts that have been uploaded for a specific multipart upload	List	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStorageLensConfigurations</a>	Grants permission to list Amazon S3 Storage Lens configurations	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStorageLensGroups</a>	Grants permission to list S3 Storage Lens groups	List		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list the tags attached to the specified resource	List	<a href="#">accessgrant</a> <a href="#">accessgrantsinstance</a> <a href="#">accessgrantslocation</a> <a href="#">accesspoint</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">bucket</a>		
			<a href="#">storageelensgroup</a>		
				<a href="#">s3:authType</a>	
				<a href="#">s3:ResourceAccount</a>	
				<a href="#">s3:signatureAge</a>	
				<a href="#">s3:signatureVersion</a>	
				<a href="#">s3:TlsVersion</a>	
				<a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ObjectOwnerOverrideToBucketOwner</a>	Grants permission to change replica ownership	Permissions management	<a href="#">object*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PauseReplication</a> [permission only]	Grants permission to pause S3 Replication from target source buckets to destination buckets	Write	<a href="#">bucket*</a>		<a href="#">s3:GetReplicationConfiguration</a> <a href="#">s3:PutReplicationConfiguration</a>



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:destinationRegion</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccelerateConfiguration</a>	Grants permission to use the accelerate subresource to set the Transfer Acceleration state of an existing S3 bucket	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutAccessGrantsInstanceResourcePolicy</a>	Grants permission to put Access grants instance resource policy	Permissions management	<a href="#">accessgrantsinstance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutAccessPointConfigurationForObjectLambda</a>	Grants permission to set the configuration of the object lambda enabled access point	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointArn</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccessPointPolicy</a>	Grants permission to associate an access policy with a specified access point	Permissions management	<a href="#">accesspoint*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutAccessPointPolicyForObjectLambda</a>	Grants permission to associate an access policy with a specified object lambda enabled access point	Permissions management	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccessPointPublicAccessBlock</a>	Grants permission to associate public access block configurations with a specified access point, while creating a access point	Permissions management			
<a href="#">PutAccountPublicAccessBlock</a>	Grants permission to create or modify the PublicAccessBlock configuration for an AWS account	Permissions management		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAnalyticsConfiguration</a>	Grants permission to set an analytics configuration for the bucket, specified by the analytics configuration ID	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutBucketAbac</a>	Grants permission to set ABAC configuration for a general purpose bucket	Write	<a href="#">bucket*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketAcl</a>	Grants permission to set the permissions on an existing bucket using access control lists (ACLs)	Permissions management	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-acl</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:x-amz-grant-full-control</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:x-amz-grant-read</a> <a href="#">s3:x-amz-grant-read-acp</a> <a href="#">s3:x-amz-grant-write</a> <a href="#">s3:x-amz-grant-write-acp</a>	
<a href="#">PutBucketCORS</a>	Grants permission to set the CORS configuration for an Amazon S3 bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutBucketLogging</a>	Grants permission to set the logging parameters for an Amazon S3 bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketNotification</a>	Grants permission to receive notifications when certain events happen in an Amazon S3 bucket	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketObjectLockConfiguration</a>	Grants permission to put Object Lock configuration on a specific bucket	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:signatureversion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketOwnershipControls</a>	Grants permission to add, replace or delete ownership controls on a bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketPolicy</a>	Grants permission to add or replace a bucket policy on a bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketPublicAccessBlock</a>	Grants permission to create or modify the PublicAccessBlock configuration for a specific Amazon S3 bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutBucketRequestPayment</a>	Grants permission to set the request payment configuration of a bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutBucketTagging</a>	Grants permission to add a set of tags to an existing Amazon S3 bucket	Tagging	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutBucketVersioning</a>	Grants permission to set the versioning state of an existing Amazon S3 bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketWebsite</a>	Grants permission to set the configuration of the website that is specified in the website subresource	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutEncryptionConfiguration</a>	Grants permission to set the encryption configuration for an Amazon S3 bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutIntelligentTieringConfiguration</a>	Grants permission to create new or update or delete an existing Amazon S3 Intelligent Tiering configuration	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutInventoryConfiguration</a>	Grants permission to add an inventory configuration to the bucket, identified by the inventory ID	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:InventoryAccessibleOptionalFields</a>	
<a href="#">PutJobTagging</a>	Grants permission to replace tags on an existing Amazon S3 Batch Operations job	Tagging	<a href="#">job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:ExistingJobPriority</a> <a href="#">s3:ExistingJobOperation</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">PutLifecycleConfiguration</a>	Grants permission to create a new lifecycle configuration for the bucket or replace an existing lifecycle configuration	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutMetricConfiguration</a>	Grants permission to set or update a metrics configuration for the CloudWatch request metrics from an Amazon S3 bucket	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">PutMultiRegionAccessPointPolicy</a>	Grants permission to associate an access policy with a specified Multi-Region Access Point	Permissions management	<a href="#">multiregionaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">PutObject</a>	Grants permission to add an object to a bucket	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3:RequestObjectTagKeys</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-acl</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-s</a> <a href="#">ha256</a>  <a href="#">s3:x-</a> <a href="#">amz-</a> <a href="#">copy-</a> <a href="#">source</a>  <a href="#">s3:x-</a> <a href="#">amz-</a> <a href="#">grant-ful</a> <a href="#">l-control</a>  <a href="#">s3:x-</a> <a href="#">amz-</a> <a href="#">grant-rea</a> <a href="#">d</a>  <a href="#">s3:x-</a> <a href="#">amz-</a> <a href="#">grant-rea</a> <a href="#">d-acp</a>  <a href="#">s3:x-</a> <a href="#">amz-</a> <a href="#">grant-wri</a> <a href="#">te</a>  <a href="#">s3:x-</a> <a href="#">amz-</a> <a href="#">grant-wri</a> <a href="#">te-acp</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:x-amz-metadata-directive</a>  <a href="#">s3:x-amz-server-side-encryption</a>  <a href="#">s3:x-amz-server-side-encryption-aws-kms-key-id</a>  <a href="#">s3:x-amz-server-side-encryption-customer-algorithm</a>  <a href="#">s3:x-amz-</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">storage-class</a> <a href="#">s3:x-amz-website-redirect-location</a> <a href="#">s3:object-lock-mode</a> <a href="#">s3:object-lock-retain-until-date</a> <a href="#">s3:object-lock-remaining-retention-days</a> <a href="#">s3:object-lock-legal-hold</a> <a href="#">s3:if-match</a> <a href="#">s3:if-none-match</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ObjectCreationOperation</a>	
<a href="#">PutObjectAcl</a>	Grants permission to set the access control list (ACL) permissions for new or existing objects in an S3 bucket	Permissions management	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-acl</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">grant-full-control</a> <a href="#">s3:x-amz-grant-read</a> <a href="#">s3:x-amz-grant-read-acp</a> <a href="#">s3:x-amz-grant-write</a> <a href="#">s3:x-amz-grant-write-acp</a> <a href="#">s3:x-amz-storage-class</a>	
<a href="#">PutObjectLegalHold</a>	Grants permission to apply a Legal Hold configuration to the specified object	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:object-lock-legal-hold</a>	
<a href="#">PutObjectRetention</a>	Grants permission to place an Object Retention configuration on an object	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:object-lock-mode</a> <a href="#">s3:object-lock-retention-until-date</a> <a href="#">s3:object-lock-remaining-re</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tention-days</a>	
<a href="#">PutObject Tagging</a>	Grants permission to set the supplied tag-set to an object that already exists in a bucket	Tagging	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3:RequestObjectTagKeys</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutObjectVersionAcl</a>	Grants permission to use the acl subresource to set the access control list (ACL) permissions for an object that already exists in a bucket	Permissions management	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsInstanceArn</a> <a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-acl</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:x-amz-grant-full-control</a> <a href="#">s3:x-amz-grant-read</a> <a href="#">s3:x-amz-grant-read-acp</a> <a href="#">s3:x-amz-grant-write</a> <a href="#">s3:x-amz-grant-write-acp</a> <a href="#">s3:x-amz-storage-class</a>	
<a href="#">PutObjectVersionTagging</a>	Grants permission to set the supplied tag-set for a specific version of an object	Tagging	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3:RequestObjectTagKeys</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:versionid</a> <a href="#">s3:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-s</a> <a href="#">ha256</a>	
<a href="#">PutReplicationConfiguration</a>	Grants permission to create a new replication configuration or replace an existing one	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-s</a> <a href="#">ha256</a> <a href="#">s3:isReplicationPauseRequest</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutStorageLensConfiguration</a>	Grants permission to create or update an Amazon S3 Storage Lens configuration	Write		<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">PutStorageLensConfigurationTagging</a>	Grants permission to put or replace tags on an existing Amazon S3 Storage Lens configuration	Tagging	<a href="#">storageLensConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">Replicate</a> <a href="#">Delete</a>	Grants permission to replicate delete markers to the destination bucket	Write	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">Replicate Object</a>	Grants permission to replicate objects and object tags to the destination bucket	Write	<a href="#">object*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:x-amz-server-side-encryption</a> <a href="#">s3:x-amz-server-side-encryption-aws-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms-key-id</a>  <a href="#">s3:x-amz-server-side-encryption-customer-algorithm</a>	
<a href="#">Replicate Tags</a>	Grants permission to replicate object tags to the destination bucket	Tagging	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">RestoreObject</a>	Grants permission to restore an archived copy of an object back into Amazon S3	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">SubmitMultiRegionAccessPointRoutes</a>	Grants permission to submit a route configuration update for a Multi-Region Access Point	Write	<a href="#">multiregionaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureversion</a> <a href="#">s3:signatureAge</a> <a href="#">s3:TlsVersion</a>	
<a href="#">TagResource</a>	Grants permission to add tags to the specified resource	Tagging	<a href="#">accessgrant</a> <a href="#">accessgrantsinstance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">accessgrantslocation</a>		
			<a href="#">accesspoint</a>		
			<a href="#">bucket</a>		
			<a href="#">storageelnsigroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified resource	Tagging	<a href="#">accessgrant</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">accessgrantsinstance</a>		
			<a href="#">accessgrantslocation</a>		
			<a href="#">accesspoint</a>		
			<a href="#">bucket</a>		
			<a href="#">storageelnsigroup</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessGrantsLocation</a>	Grants permission to update Access Grants location	Permissions management	<a href="#">accessgrantslocation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:AccessGrantsLocationScope</a> <a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBucketMetadataInventoryTableConfiguration</a>	Grants permission to update the inventory table configuration on an existing S3 Metadata configuration for a specified general purpose bucket	Write	<a href="#">bucket*</a>		kms:DescribeKey  s3tables:CreateNamespace  s3tables:CreateTable  s3tables:CreateTableBucket  s3tables:GetTable  s3tables:PutTableEncryption  s3tables:PutTablePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateBucketMetadataJournalTableConfiguration</a>	Grants permission to update the journal table configuration on an existing S3 Metadata configuration for a specified general purpose bucket	Write	<a href="#">bucket*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	
<a href="#">UpdateJobPriority</a>	Grants permission to update the priority of an existing job	Write	<a href="#">job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:RequestJobPriority</a> <a href="#">s3:ExistingJobPriority</a> <a href="#">s3:ExistingJobOperation</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateJobStatus</a>	Grants permission to update the status for the specified job	Write	<a href="#">job*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:ExistingJobPriority</a> <a href="#">s3:ExistingJobOperation</a> <a href="#">s3:JobSuspendedCause</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateObjectEncryption</a>	Grants permission to update the server-side encryption type of an existing object in a general purpose bucket	Write	<a href="#">accesspointobject</a> <a href="#">object</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureversion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a> <a href="#">s3:x-amz-server-side-encryption</a> <a href="#">s3:x-amz-server-side-encryption-aws-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">kms-key-id</a>	
<a href="#">UpdateStorageLensGroup</a>	Grants permission to update an existing S3 Storage Lens group	Write	<a href="#">storageelensgroup*</a>	<a href="#">s3:authType</a> <a href="#">s3:ResourceAccount</a> <a href="#">s3:signatureAge</a> <a href="#">s3:signatureVersion</a> <a href="#">s3:TlsVersion</a> <a href="#">s3:x-amz-content-sha256</a>	

## Resource types defined by Amazon S3

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">accesspoint</a>	arn:\${Partition}:s3:\${Region}:\${Account}:accesspoint/\${AccessPointName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:AccessPointTag/\${TagKey}</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a>
<a href="#">accesspointobject</a>	arn:\${Partition}:s3:\${Region}:\${Account}:accesspoint/\${AccessPointName}/object/\${ObjectName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3:AccessPointNetworkOrigin</a> <a href="#">s3:AccessPointTag/\${TagKey}</a> <a href="#">s3:BucketTag/\${TagKey}</a> <a href="#">s3:DataAccessPointAccount</a> <a href="#">s3:DataAccessPointArn</a>
<a href="#">bucket</a>	arn:\${Partition}:s3:::\${BucketName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
		<a href="#">s3:BucketTag/\${TagKey}</a>
<a href="#">object</a>	arn:\${Partition}:s3:::\${BucketName}/\${ObjectName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3:BucketTag/\${TagKey}</a>
<a href="#">job</a>	arn:\${Partition}:s3:\${Region}:\${Account}:job/\${JobId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">storageelensconfiguration</a>	arn:\${Partition}:s3:\${Region}:\${Account}:storage-lens/\${ConfigId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">storageelensgroup</a>	arn:\${Partition}:s3:\${Region}:\${Account}:storage-lens-group/\${Name}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>
<a href="#">objectlambdaaccesspoint</a>	arn:\${Partition}:s3-object-lambda:\${Region}:\${Account}:accesspoint/\${AccessPointName}	

Resource types	ARN	Condition keys
<a href="#">multiregionaccesspoint</a>	arn:\${Partition}:s3::\${Account}:accesspoint/\${AccessPointAlias}	
<a href="#">multiregionaccesspointrequeststart</a>	arn:\${Partition}:s3:us-west-2:\${Account}:async-request/mrap/\${Operation}/\${Token}	
<a href="#">accessgrantsinstance</a>	arn:\${Partition}:s3:\${Region}:\${Account}:access-grants/default	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>
<a href="#">accessgrantslocation</a>	arn:\${Partition}:s3:\${Region}:\${Account}:access-grants/default/location/\${Token}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>
<a href="#">accessgrant</a>	arn:\${Partition}:s3:\${Region}:\${Account}:access-grants/default/grant/\${Token}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>

## Condition keys for Amazon S3

Amazon S3 defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">s3:AccessGrantScope</a>	Filters access by the grant scope of access grants grant	String
<a href="#">s3:AccessGrantsInstanceArn</a>	Filters access by access grants instance ARN	ARN
<a href="#">s3:AccessGrantsLocationScope</a>	Filters access by the location scope of access grants location	String
<a href="#">s3:AccessPointNetworkOrigin</a>	Filters access by the network origin (Internet or VPC)	String
<a href="#">s3:AccessPointTag/\${TagKey}</a>	Filters access by existing access point tag key and value	String

Condition keys	Description	Type
<a href="#">s3:BucketTag/\${TagKey}</a>	Filters access by the tags associated with the bucket	String
<a href="#">s3:DataAccessPointAccount</a>	Filters access by the AWS Account ID that owns the access point	String
<a href="#">s3:DataAccessPointArn</a>	Filters access by an access point Amazon Resource Name (ARN)	ARN
<a href="#">s3:ExistingJobOperation</a>	Filters access by operation to updating the job priority	String
<a href="#">s3:ExistingJobPriority</a>	Filters access by priority range to cancelling existing jobs	Numeric
<a href="#">s3:ExistingObjectTag/&lt;key&gt;</a>	Filters access by existing object tag key and value	String
<a href="#">s3:InventoryAccessibleOptionalFields</a>	Filters access by restricting which optional metadata fields a user can add when configuring S3 Inventory reports	ArrayOfString
<a href="#">s3:JobSuspendedCause</a>	Filters access by a specific job suspended cause (for example, AWAITING_CONFIRMATION) to cancelling suspended jobs	String
<a href="#">s3:ObjectCreationOperation</a>	Filters access by whether or not the operation creates an object	Bool
<a href="#">s3:RequestJobOperation</a>	Filters access by operation to creating jobs	String

Condition keys	Description	Type
<a href="#">s3:RequestJobPriority</a>	Filters access by priority range to creating new jobs	Numeric
<a href="#">s3:RequestObjectTag/&lt;key&gt;</a>	Filters access by the tag keys and values to be added to objects	String
<a href="#">s3:RequestObjectTagKeys</a>	Filters access by the tag keys to be added to objects	ArrayOfString
<a href="#">s3:ResourceAccount</a>	Filters access by the resource owner AWS account ID	String
<a href="#">s3:TlsVersion</a>	Filters access by the TLS version used by the client	Numeric
<a href="#">s3:authType</a>	Filters access by authentication method	String
<a href="#">s3:delimiter</a>	Filters access by delimiter parameter	String
<a href="#">s3:destinationRegion</a>	Filters access by a specific replication destination region for targeted buckets of the AWS FIS action <code>aws:s3:bucket-pause-replication</code>	String
<a href="#">s3:if-match</a>	Filters access by the request's 'If-Match' conditional header	String
<a href="#">s3:if-none-match</a>	Filters access by the request's 'If-None-Match' conditional header	String
<a href="#">s3:isReplicationPauseRequest</a>	Filters access by request made via AWS FIS action <code>aws:s3:bucket-pause-replication</code>	Bool
<a href="#">s3:locationconstraint</a>	Filters access by a specific Region	String
<a href="#">s3:max-keys</a>	Filters access by maximum number of keys returned in a ListBucket request	Numeric



Condition keys	Description	Type
<a href="#">s3:object-lock-legal-hold</a>	Filters access by object legal hold status	String
<a href="#">s3:object-lock-mode</a>	Filters access by object retention mode (COMPLIANCE or GOVERNANCE)	String
<a href="#">s3:object-lock-remaining-retention-days</a>	Filters access by remaining object retention days	Numeric
<a href="#">s3:object-lock-retain-until-date</a>	Filters access by object retain-until date	Date
<a href="#">s3:prefix</a>	Filters access by key name prefix	String
<a href="#">s3:signatureAge</a>	Filters access by the age in milliseconds of the request signature	Numeric
<a href="#">s3:signatureversion</a>	Filters access by the version of AWS Signature used on the request	String
<a href="#">s3:versionid</a>	Filters access by a specific object version	String
<a href="#">s3:x-amz-acl</a>	Filters access by canned ACL in the request's x-amz-acl header	String
<a href="#">s3:x-amz-bucket-namespace</a>	Filters access by general purpose bucket namespace type	String
<a href="#">s3:x-amz-content-sha256</a>	Filters access by unsigned content in your bucket	String
<a href="#">s3:x-amz-copy-source</a>	Filters access by copy source bucket, prefix, or object in the copy object requests	String
<a href="#">s3:x-amz-grant-full-control</a>	Filters access by x-amz-grant-full-control (full control) header	String

Condition keys	Description	Type
<a href="#">s3:x-amz-grant-read</a>	Filters access by x-amz-grant-read (read access) header	String
<a href="#">s3:x-amz-grant-read-acp</a>	Filters access by the x-amz-grant-read-acp (read permissions for the ACL) header	String
<a href="#">s3:x-amz-grant-write</a>	Filters access by the x-amz-grant-write (write access) header	String
<a href="#">s3:x-amz-grant-write-acp</a>	Filters access by the x-amz-grant-write-acp (write permissions for the ACL) header	String
<a href="#">s3:x-amz-metadata-directive</a>	Filters access by object metadata behavior (COPY or REPLACE) when objects are copied	String
<a href="#">s3:x-amz-object-ownership</a>	Filters access by Object Ownership	String
<a href="#">s3:x-amz-server-side-encryption</a>	Filters access by server-side encryption	String
<a href="#">s3:x-amz-server-side-encryption-aws-kms-key-id</a>	Filters access by AWS KMS customer managed CMK for server-side encryption	ARN
<a href="#">s3:x-amz-server-side-encryption-customer-algorithm</a>	Filters access by customer specified algorithm for server-side encryption	String
<a href="#">s3:x-amz-storage-class</a>	Filters access by storage class	String

Condition keys	Description	Type
<a href="#">s3:x-amz-website-redirect-location</a>	Filters access by a specific website redirect location for buckets that are configured as static websites	String

## Actions, resources, and condition keys for Amazon S3 Express

Amazon S3 Express (service prefix: `s3express`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon S3 Express](#)
- [Resource types defined by Amazon S3 Express](#)
- [Condition keys for Amazon S3 Express](#)

## Actions defined by Amazon S3 Express

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccessPoint</a>	Grants permission to create a new access point	Write	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:LocationName</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express</a> <a href="#">:x-amz-content-sha256</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateBucket</a>	Grants permission to create a new bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:authType</a> <a href="#">s3express:LocationName</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSession</a>	Grants permission to Create Session token which is used for object APIs such as PutObject, GetObject, etc	Write	<a href="#">bucket*</a>		
			<a href="#">accesspoint</a>	<a href="#">s3express:Permissions</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:SessionMode</a> <a href="#">s3express:signatureAge</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a> <a href="#">s3express:x-amz-server-side-encryption</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:x-amz-server-side-encryption-on-aws-kms-key-id</a> <a href="#">s3express:AllAccessRestrictedToLocalZoneGroup</a> <a href="#">s3express:Permissions</a>	
<a href="#">DeleteAccessPoint</a>	Grants permission to delete the access point named in the URI	Write	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-sha256</a>	
<a href="#">DeleteAccessPointPolicy</a>	Grants permission to delete the policy on a specified access point	Permissions management	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-sha256</a>	
<a href="#">DeleteAccessPointScope</a>	Grants permission to delete the scope configuration on a specified access point	Permissions management	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express-sha256</a>	
<a href="#">DeleteBucket</a>	Grants permission to delete the bucket named in the URI	Write	<a href="#">bucket*</a>	<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBucketPolicy</a>	Grants permission to delete the policy on a specified bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	
<a href="#">GetAccessPoint</a>	Grants permission to return configuration information about the specified access point	Read	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-sha256</a>	
<a href="#">GetAccessPointPolicy</a>	Grants permission to return the access point policy associated with the specified access point	Read	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">content-sha256</a>	
<a href="#">GetAccessPointScope</a>	Grants permission to return the scope configuration associated with the specified access point	Read	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express-sha256</a>	
<a href="#">GetBucketPolicy</a>	Grants permission to return the policy of the specified bucket	Read	<a href="#">bucket*</a>	<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEncryptionConfiguration</a>	Grants permission to return the default encryption configuration for a directory bucket	Read	<a href="#">bucket*</a>	<a href="#">s3express:authType</a>  <a href="#">s3express:ResourceAccount</a>  <a href="#">s3express:signatureversion</a>  <a href="#">s3express:TlsVersion</a>  <a href="#">s3express:x-amz-content-sha256</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLifecycleConfiguration</a>	Grants permission to return the lifecycle configuration information set on a directory bucket	Read	<a href="#">bucket*</a>	<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccessPointsForDirectoryBuckets</a>	Grants permission to list access points	List		<a href="#">s3express:authType</a>  <a href="#">s3express:ResourceAccount</a>  <a href="#">s3express:signatureVersion</a>  <a href="#">s3express:TlsVersion</a>  <a href="#">s3express:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAllMyDirectoryBuckets</a>	Grants permission to list all directory buckets owned by the authenticated sender of the request	List		<a href="#">s3express:authType</a>  <a href="#">s3express:ResourceAccount</a>  <a href="#">s3express:signatureversion</a>  <a href="#">s3express:TlsVersion</a>  <a href="#">s3express:x-amz-content-sha256</a>	
<a href="#">ListTagsForResource</a>	Grants permission to lists all of the tags for a specified resource	List	<a href="#">accesspoint</a>  <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	
<a href="#">PutAccessPointPolicy</a>	Grants permission to associate an access policy with a specified access point	Permissions management	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccessPointScope</a>	Grants permission to associate an access point with a specified access point scope configuration	Permissions management	<a href="#">accesspoint*</a>	<a href="#">content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:DataAccessPointAccount</a> <a href="#">s3express:DataAccessPointArn</a> <a href="#">s3express:AccessPointNetworkOrigin</a> <a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureVersion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutBucketPolicy</a>	Grants permission to add or replace a bucket policy on a bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">content-sha256</a>  <a href="#">s3express:authType</a>  <a href="#">s3express:ResourceAccount</a>  <a href="#">s3express:signatureVersion</a>  <a href="#">s3express:TlsVersion</a>  <a href="#">s3express:x-amz-content-sha256</a>	
<a href="#">PutEncryptionConfiguration</a>	Grants permission to set the encryption configuration for a directory bucket	Write	<a href="#">bucket*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutLifecycleConfiguration</a>	Grants permission to create a new lifecycle configuration for the directory bucket or replace an existing lifecycle configuration	Write	<a href="#">bucket*</a>	<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a>	
<a href="#">TagResource</a>	Grants permission to create a new user-defined tag or update an existing tag	Tagging	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove the specified user-defined tags from an S3 resource	Tagging	<a href="#">accesspoint</a> <a href="#">bucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3express:authType</a> <a href="#">s3express:ResourceAccount</a> <a href="#">s3express:signatureversion</a> <a href="#">s3express:TlsVersion</a> <a href="#">s3express:x-amz-content-sha256</a> <a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon S3 Express

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">bucket</a>	arn:\${Partition}:s3express:\${Region}:\${Account}:bucket/\${BucketName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3express:BucketTag/\${TagKey}</a>
<a href="#">accesspoint</a>	arn:\${Partition}:s3express:\${Region}:\${Account}:accesspoint/\${AccessPointName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3express:AccessPointTag/\${TagKey}</a>

## Condition keys for Amazon S3 Express

Amazon S3 Express defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">s3express:AccessPointNetworkOrigin</a>	Filters access by the network origin (Internet or VPC)	String
<a href="#">s3express:AccessPointTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the access point	String
<a href="#">s3express:AllAccessRestrictedToLocalZoneGroup</a>	Filters access by AWS Local Zone network border group(s) provided in this condition key	String
<a href="#">s3express:BucketTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the bucket	String
<a href="#">s3express:DataAccessPointAccount</a>	Filters access by the AWS Account ID that owns the access point	String
<a href="#">s3express:DataAccessPointArn</a>	Filters access by an access point Amazon Resource Name (ARN)	ARN
<a href="#">s3express:LocationName</a>	Filters access by a specific Availability Zone or Local Zone ID	String
<a href="#">s3express:Permissions</a>	Filters access by the permission requested by Access Point Scope configuration, such as GetObject, PutObject	ArrayOfString
<a href="#">s3express:ResourceAccount</a>	Filters access by the resource owner AWS account ID	String

Condition keys	Description	Type
<a href="#">s3express:SessionMode</a>	Filters access by the permission requested by CreateSession API, such as ReadOnly and ReadWrite	String
<a href="#">s3express:TlsVersion</a>	Filters access by the TLS version used by the client	Numeric
<a href="#">s3express:authType</a>	Filters access by authentication method	String
<a href="#">s3express:signatureAge</a>	Filters access by the age in milliseconds of the request signature	Numeric
<a href="#">s3express:signatureversion</a>	Filters access by the AWS Signature Version used on the request	String
<a href="#">s3express:x-amz-content-sha256</a>	Filters access by unsigned content in your bucket	String
<a href="#">s3express:x-amz-server-side-encryption</a>	Filters access by server-side encryption	String
<a href="#">s3express:x-amz-server-side-encryption-aws-kms-key-id</a>	Filters access by AWS KMS customer managed key for server-side encryption	ARN

## Actions, resources, and condition keys for Amazon S3 Glacier

Amazon S3 Glacier (service prefix: `glacier`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon S3 Glacier](#)
- [Resource types defined by Amazon S3 Glacier](#)
- [Condition keys for Amazon S3 Glacier](#)

## Actions defined by Amazon S3 Glacier

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.



The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortMultipartUpload</a>	Grants permission to abort a multipart upload identified by the upload ID	Write	<a href="#">vault*</a>		
<a href="#">AbortVaultLock</a>	Grants permission to abort the vault locking process if the vault lock is not in the Locked state	Permissions management	<a href="#">vault*</a>		
<a href="#">AddTagsToVault</a>	Grants permission to add the specified tags to a vault	Tagging	<a href="#">vault*</a>		
<a href="#">CompleteMultipartUpload</a>	Grants permission to complete a multipart upload process	Write	<a href="#">vault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CompleteVaultLock</a>	Grants permission to complete the vault locking process	Permissions management	<a href="#">vault*</a>		
<a href="#">CreateVault</a>	Grants permission to create a new vault with the specified name	Write	<a href="#">vault*</a>		
<a href="#">DeleteArchive</a>	Grants permission to delete an archive from a vault	Write	<a href="#">vault*</a>	<a href="#">glacier:ArchiveAgeInDays</a>	
<a href="#">DeleteVault</a>	Grants permission to delete a vault	Write	<a href="#">vault*</a>		
<a href="#">DeleteVaultAccessPolicy</a>	Grants permission to delete the access policy associated with the specified vault	Permissions management	<a href="#">vault*</a>		
<a href="#">DeleteVaultNotifications</a>	Grants permission to delete the notification configuration set for a vault	Write	<a href="#">vault*</a>		
<a href="#">DescribeJob</a>	Grants permission to get information about a job previously initiated	Read	<a href="#">vault*</a>		
<a href="#">DescribeVault</a>	Grants permission to get information about a vault	Read	<a href="#">vault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDataRetrievalPolicy</a>	Grants permission to get the data retrieval policy	Read			
<a href="#">GetJobOutput</a>	Grants permission to download the output of the job specified	Read	<a href="#">vault*</a>		
<a href="#">GetVaultAccessPolicy</a>	Grants permission to retrieve the access-policy subresource set on the vault	Read	<a href="#">vault*</a>		
<a href="#">GetVaultLock</a>	Grants permission to retrieve attributes from the lock-policy subresource set on the specified vault	Read	<a href="#">vault*</a>		
<a href="#">GetVaultNotifications</a>	Grants permission to retrieve the notification-configuration subresource set on the vault	Read	<a href="#">vault*</a>		
<a href="#">InitiateJob</a>	Grants permission to initiate a job of the specified type	Write	<a href="#">vault*</a>	<a href="#">glacier:ArchiveAgeInDays</a>	
<a href="#">InitiateMultipartUpload</a>	Grants permission to initiate a multipart upload	Write	<a href="#">vault*</a>		
<a href="#">InitiateVaultLock</a>	Grants permission to initiate the vault locking process	Permissions management	<a href="#">vault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListJobs</a>	Grants permission to list jobs for a vault that are in-progress and jobs that have recently finished	List	<a href="#">vault*</a>		
<a href="#">ListMultipartUploads</a>	Grants permission to list in-progress multipart uploads for the specified vault	List	<a href="#">vault*</a>		
<a href="#">ListParts</a>	Grants permission to list the parts of an archive that have been uploaded in a specific multipart upload	List	<a href="#">vault*</a>		
<a href="#">ListProvisionedCapacity</a>	Grants permission to list the provisioned capacity for the specified AWS account	List			
<a href="#">ListTagsForVault</a>	Grants permission to list all the tags attached to a vault	List	<a href="#">vault*</a>		
<a href="#">ListVaults</a>	Grants permission to list all vaults	List			
<a href="#">PurchaseProvisionedCapacity</a>	Grants permission to purchase a provisioned capacity unit for an AWS account	Write			
<a href="#">RemoveTagsFromVault</a>	Grants permission to remove one or more tags from the set of tags attached to a vault	Tagging	<a href="#">vault*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetDataRetrievalPolicy</a>	Grants permission to set and then enacts a data retrieval policy in the region specified in the PUT request	Permissions management			
<a href="#">SetVaultAccessPolicy</a>	Grants permission to configure an access policy for a vault; will overwrite an existing policy	Permissions management	<a href="#">vault*</a>		
<a href="#">SetVaultNotifications</a>	Grants permission to configure vault notifications	Write	<a href="#">vault*</a>		
<a href="#">UploadArchive</a>	Grants permission to upload an archive to a vault	Write	<a href="#">vault*</a>		
<a href="#">UploadMultipartPart</a>	Grants permission to upload a part of an archive	Write	<a href="#">vault*</a>		

## Resource types defined by Amazon S3 Glacier

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">vault</a>	arn:\${Partition}:glacier:\${Region}:\${Account}:vaults/\${VaultName}	

## Condition keys for Amazon S3 Glacier

Amazon S3 Glacier defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">glacier:ArchiveAgeInDays</a>	Filters access by how long an archive has been stored in the vault, in days	String
<a href="#">glacier:ResourceTag/</a>	Filters access by a customer-defined tag	String

## Actions, resources, and condition keys for Amazon S3 Object Lambda

Amazon S3 Object Lambda (service prefix: `s3-object-lambda`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon S3 Object Lambda](#)
- [Resource types defined by Amazon S3 Object Lambda](#)
- [Condition keys for Amazon S3 Object Lambda](#)

## Actions defined by Amazon S3 Object Lambda

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortMultipartUpload</a>	Grants permission to abort a multipart upload	Write	<a href="#">objectlambdaaccesspoint*</a>	<a href="#">s3-object-lambda:authType</a> <a href="#">s3-object-lambda:signatureAge</a> <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">DeleteObject</a>	Grants permission to remove the null version of an object and insert a delete marker, which becomes the current version of the object	Write	<a href="#">objectlambdaaccesspoint*</a>	<a href="#">s3-object-</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TimestampVersion</a>	
<a href="#">DeleteObjectTagging</a>	Grants permission to use the tagging subresource to remove the entire tag set from the specified object	Tagging	<a href="#">objectlambdaaccesspoint*</a>	<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TimestampVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteObjectVersion</a>	Grants permission to remove a specific version of an object	Write	<a href="#">objectlambdaaccesspoint*</a>	<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TagsVersion</a>  <a href="#">s3-object-lambda:versionid</a>	
<a href="#">DeleteObjectVersionTagging</a>	Grants permission to remove the entire tag set for a specific version of the object	Tagging	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a> <a href="#">s3-object-lambda:signatureAge</a> <a href="#">s3-object-lambda:TlsVersion</a> <a href="#">s3-object-lambda:versionid</a>	
<a href="#">GetObject</a>	Grants permission to retrieve objects from Amazon S3	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TlsVersion</a>	
<a href="#">GetObjectAcl</a>	Grants permission to return the access control list (ACL) of an object	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">GetObjectLegalHold</a>	Grants permission to get an object's current Legal Hold status	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">GetObjectRetention</a>	Grants permission to retrieve the retention settings for an object	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TimestampVersion</a>	
<a href="#">GetObjectTagging</a>	Grants permission to return the tag set of an object	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">GetObjectVersion</a>	Grants permission to retrieve a specific version of an object	Read	<a href="#">objectlambdaaccesspoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a> <a href="#">s3-object-lambda:signatureAge</a> <a href="#">s3-object-lambda:TimestampVersion</a> <a href="#">s3-object-lambda:versionid</a>	
<a href="#">GetObjectVersionAcl</a>	Grants permission to return the access control list (ACL) of a specific object version	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authenticationType</a> <a href="#">s3-object-lambda:signatureAge</a> <a href="#">s3-object-lambda:TimestampVersion</a> <a href="#">s3-object-lambda:versionid</a>	
<a href="#">GetObjectVersionTagging</a>	Grants permission to return the tag set for a specific version of the object	Read	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authenticationType</a> <a href="#">s3-object-lambda:signatureAge</a> <a href="#">s3-object-lambda:TimestampVersion</a> <a href="#">s3-object-lambda:versionid</a>	
<a href="#">ListBucket</a>	Grants permission to list some or all of the objects in an Amazon S3 bucket (up to 1000)	List	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">ListBucketMultipartUploads</a>	Grants permission to list in-progress multipart uploads	List	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TimestampVersion</a>	
<a href="#">ListBucketVersions</a>	Grants permission to list metadata about all the versions of objects in an Amazon S3 bucket	List	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">ListMultipartUploadParts</a>	Grants permission to list the parts that have been uploaded for a specific multipart upload	List	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">PutObject</a>	Grants permission to add an object to a bucket	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">PutObjectAcl</a>	Grants permission to set the access control list (ACL) permissions for new or existing objects in an S3 bucket	Permissions management	<a href="#">objectlambdaaccesspoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">PutObjectLegalHold</a>	Grants permission to apply a Legal Hold configuration to the specified object	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TlsVersion</a>	
<a href="#">PutObjectRetention</a>	Grants permission to place an Object Retention configuration on an object	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">PutObject Tagging</a>	Grants permission to set the supplied tag-set to an object that already exists in a bucket	Tagging	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">PutObjectVersionAcl</a>	Grants permission to use the acl subresource to set the access control list (ACL) permissions for an object that already exists in a bucket	Permissions management	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authenticationType</a> <a href="#">s3-object-lambda:signatureAge</a> <a href="#">s3-object-lambda:TimestampVersion</a> <a href="#">s3-object-lambda:versionid</a>	
<a href="#">PutObjectVersionTagging</a>	Grants permission to set the supplied tag-set for a specific version of an object	Tagging	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TimestampVersion</a>  <a href="#">s3-object-lambda:versionid</a>	
<a href="#">RestoreObject</a>	Grants permission to restore an archived copy of an object back into Amazon S3	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	
<a href="#">WriteGetObjectResponse</a>	Grants permission to provide data for GetObject requests send to S3 Object Lambda	Write	<a href="#">objectlambdaaccesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-object-lambda:authType</a>  <a href="#">s3-object-lambda:signatureAge</a>  <a href="#">s3-object-lambda:TLSVersion</a>	

## Resource types defined by Amazon S3 Object Lambda

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">objectlambdaaccesspoint</a>	arn:\${Partition}:s3-object-lambda:\${Region}:\${Account}:accesspoint/\${AccessPointName}	



## Condition keys for Amazon S3 Object Lambda

Amazon S3 Object Lambda defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">s3-object-lambda:TLSVersion</a>	Filters access by the TLS version used by the client	Numeric
<a href="#">s3-object-lambda:authType</a>	Filters access by authentication method	String
<a href="#">s3-object-lambda:signatureAge</a>	Filters access by the age in milliseconds of the request signature	Numeric
<a href="#">s3-object-lambda:versionid</a>	Filters access by a specific object version	String

## Actions, resources, and condition keys for Amazon S3 on Outposts

Amazon S3 on Outposts (service prefix: `s3-outposts`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon S3 on Outposts](#)
- [Resource types defined by Amazon S3 on Outposts](#)
- [Condition keys for Amazon S3 on Outposts](#)

## Actions defined by Amazon S3 on Outposts

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortMultipartUpload</a>	Grants permission to abort a multipart upload	Write	<a href="#">object*</a>	<a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">CreateAccessPoint</a>	Grants permission to create a new access point	Write	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">CreateBucket</a>	Grants permission to create a new bucket	Write	<a href="#">bucket*</a>	<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">CreateEndpoint</a>	Grants permission to create a new endpoint	Write	<a href="#">endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccessPoint</a>	Grants permission to delete the access point named in the URI	Write	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">DeleteAccessPointPolicy</a>	Grants permission to delete the policy on a specified access point	Permissions management	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts</a> <a href="#">ts:x-amz-content-sha256</a>	
<a href="#">DeleteBucket</a>	Grants permission to delete the bucket named in the URI	Write	<a href="#">bucket*</a>	<a href="#">s3-outposts</a> <a href="#">ts:authType</a>  <a href="#">s3-outposts</a> <a href="#">ts:signatureAge</a>  <a href="#">s3-outposts</a> <a href="#">ts:signatureVersion</a>  <a href="#">s3-outposts</a> <a href="#">ts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteBucketPolicy</a>	Grants permission to delete the policy on a specified bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">DeleteEndpoint</a>	Grants permission to delete the endpoint named in the URI	Write	<a href="#">endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteObject</a>	Grants permission to remove the null version of an object and insert a delete marker, which becomes the current version of the object	Write	<a href="#">object*</a>	<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signature</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteObjectTagging</a>	Grants permission to use the tagging subresource to remove the entire tag set from the specified object	Tagging	<a href="#">object*</a>	<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ts:signatureAge</a>  <a href="#">s3-outposts:signatureversion</a>  <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">DeleteObjectVersion</a>	Grants permission to remove a specific version of an object	Write	<a href="#">object*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteObjectVersionTagging</a>	Grants permission to remove the entire tag set for a specific version of the object	Tagging	<a href="#">object*</a>	<a href="#">s3-outposts:versionid</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:versionid</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccessPoint</a>	Grants permission to return configuration information about the specified access point	Read		<a href="#">s3-outposts:DataAccessPointAccount</a>  <a href="#">s3-outposts:DataAccessPointArn</a>  <a href="#">s3-outposts:AccessPointNetworkOrigin</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>  <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetAccessPointPolicy</a>	Grants permission to return the access point policy associated with the specified access point	Read	<a href="#">accesspoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a>  <a href="#">s3-outposts:DataAccessPointArn</a>  <a href="#">s3-outposts:AccessPointNetworkOrigin</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>  <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts</a> <a href="#">ts:x-amz-content-sha256</a>	
<a href="#">GetBucket</a>	Grants permission to return the bucket configuration associated with an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3-outposts</a> <a href="#">ts:authType</a> <a href="#">s3-outposts</a> <a href="#">ts:signatureAge</a> <a href="#">s3-outposts</a> <a href="#">ts:signatureVersion</a> <a href="#">s3-outposts</a> <a href="#">ts:x-amz-content-sha256</a>	
<a href="#">GetBucketPolicy</a>	Grants permission to return the policy of the specified bucket	Read	<a href="#">bucket*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetBucketTagging</a>	Grants permission to return the tag set associated with an Amazon S3 bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetBucketVersioning</a>	Grants permission to return the versioning state of an Amazon S3 bucket	Read	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authenticate</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLifecycleConfiguration</a>	Grants permission to return the lifecycle configuration information set on an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetObject</a>	Grants permission to retrieve objects from Amazon S3	Read	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a>  <a href="#">s3-outposts:DataAccessPointArn</a>  <a href="#">s3-outposts:AccessPointNetworkOrigin</a>  <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetObjectTagging</a>	Grants permission to return the tag set of an object	Read	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a>  <a href="#">s3-outposts:DataAccessPointArn</a>  <a href="#">s3-outposts:AccessPointNetworkOrigin</a>  <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetObjectVersion</a>	Grants permission to retrieve a specific version of an object	Read	<a href="#">object*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:versionid</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetObjectVersionForReplication</a>	Grants permission to replicate both unencrypted objects and objects encrypted with SSE-KMS	Read	<a href="#">object*</a>	<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">GetObjectVersionTagging</a>	Grants permission to return the tag set for a specific version of the object	Read	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a>  <a href="#">s3-outposts:DataAccessPointArn</a>  <a href="#">s3-outposts:AccessPointNetworkOrigin</a>  <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:versionid</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetReplicationConfiguration</a>	Grants permission to get the replication configuration information set on an Amazon S3 bucket	Read	<a href="#">bucket*</a>	<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAccessPoints</a>	Grants permission to list access points	List		<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">ListBucket</a>	Grants permission to list some or all of the objects in an Amazon S3 bucket (up to 1000)	List	<a href="#">accesspoint*</a> <a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:delimiter</a> <a href="#">s3-outposts:max-keys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:prefix</a>  <a href="#">s3-outposts:signatureAge</a>  <a href="#">s3-outposts:signatureversion</a>  <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">ListBucketMultipartUploads</a>	Grants permission to list in-progress multipart uploads	List	<a href="#">accesspoint*</a>  <a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListBucketVersions</a>	Grants permission to list metadata about all the versions of objects in an Amazon S3 bucket	List	<a href="#">bucket*</a>	<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:delimiter</a> <a href="#">s3-outposts</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ts:max-keys</a> <a href="#">s3-outposts:prefix</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">ListEndpoints</a>	Grants permission to list endpoints	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMultipartUploadParts</a>	Grants permission to list the parts that have been uploaded for a specific multipart upload	List	<a href="#">object*</a>	<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signature</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">ListOutpostsWithS3</a>	Grants permission to list outposts with S3 capacity	List			
<a href="#">ListRegionalBuckets</a>	Grants permission to list all buckets owned by the authenticated sender of the request	List		<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSharedEndpoints</a>	Grants permission to list shared endpoints	List			
<a href="#">PutAccessPointPolicy</a>	Grants permission to associate an access policy with a specified access point	Permissions management	<a href="#">accesspoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">PutBucketPolicy</a>	Grants permission to add or replace a bucket policy on a bucket	Permissions management	<a href="#">bucket*</a>	<a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>  <a href="#">s3-outposts:signatureVersion</a>  <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">PutBucketTagging</a>	Grants permission to add a set of tags to an existing Amazon S3 bucket	Tagging	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureversion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">PutBucketVersioning</a>	Grants permission to set the versioning state of an existing Amazon S3 bucket	Write	<a href="#">bucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authenticate</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutLifecycleConfiguration</a>	Grants permission to create a new lifecycle configuration for the bucket or replace an existing lifecycle configuration	Write	<a href="#">bucket*</a>	<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">PutObject</a>	Grants permission to add an object to a bucket	Write	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:RequestObjectTagKeys</a> <a href="#">s3-outposts:</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-acl</a> <a href="#">s3-outposts:x-amz-content-sha256</a> <a href="#">s3-outposts:x-amz-copy-source</a> <a href="#">s3-outposts:x-amz-</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">metadata-directive</a>  <a href="#">s3-outposts:x-amz-server-side-encryption</a>  <a href="#">s3-outposts:x-amz-storage-class</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutObjectAcl</a>	Grants permission to set the access control list (ACL) permissions for an object that already exists in a bucket	Permissions management	<a href="#">object*</a>	<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:authType</a> <a href="#">s3-outposts</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ts:signatureAge</a>  <a href="#">s3-outposts:signatureversion</a>  <a href="#">s3-outposts:x-amz-acl</a>  <a href="#">s3-outposts:x-amz-content-sha256</a>  <a href="#">s3-outposts:x-amz-storage-class</a>	
<a href="#">PutObjectTagging</a>	Grants permission to set the supplied tag-set to an object that already exists in a bucket	Tagging	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:Request</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tObjectTagKeys</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>  <a href="#">s3-outposts:signatureVersion</a>  <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">PutObjectVersionTagging</a>	Grants permission to set the supplied tag-set for a specific version of an object	Tagging	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:DataAccessPointAccount</a> <a href="#">s3-outposts:DataAccessPointArn</a> <a href="#">s3-outposts:AccessPointNetworkOrigin</a> <a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:RequestObjectTag/&lt;key&gt;</a> <a href="#">s3-outposts:Request</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">tObjectTagKeys</a>  <a href="#">s3-outposts:authType</a>  <a href="#">s3-outposts:signatureAge</a>  <a href="#">s3-outposts:signatureVersion</a>  <a href="#">s3-outposts:versionId</a>  <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">PutReplicationConfiguration</a>	Grants permission to create a new replication configuration or replace an existing one	Write	<a href="#">bucket*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">Replicate</a> <a href="#">Delete</a>	Grants permission to replicate delete markers to the destination bucket	Write	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authType</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	
<a href="#">Replicate Object</a>	Grants permission to replicate objects and object tags to the destination bucket	Write	<a href="#">object*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authenticate</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a> <a href="#">s3-outposts:x-amz-server-side-encryption</a>	
<a href="#">Replicate Tags</a>	Grants permission to replicate object tags to the destination bucket	Tagging	<a href="#">object*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3-outposts:authenticate</a> <a href="#">s3-outposts:signatureAge</a> <a href="#">s3-outposts:signatureVersion</a> <a href="#">s3-outposts:x-amz-content-sha256</a>	

## Resource types defined by Amazon S3 on Outposts

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">accesspoint</a>	arn:\${Partition}:s3-outposts:\${Region}:\${Account}:outpost/\${OutpostId}/accesspoint/\${AccessPointName}	
<a href="#">bucket</a>	arn:\${Partition}:s3-outposts:\${Region}:\${Account}:outpost/\${OutpostId}/bucket/\${BucketName}	
<a href="#">endpoint</a>	arn:\${Partition}:s3-outposts:\${Region}:\${Account}:outpost/\${OutpostId}/endpoint/\${EndpointId}	
<a href="#">object</a>	arn:\${Partition}:s3-outposts:\${Region}:\${Account}:outpost/\${OutpostId}/bucket/\${BucketName}/object/\${ObjectName}	

## Condition keys for Amazon S3 on Outposts

Amazon S3 on Outposts defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">s3-outposts:AccessPointNetworkOrigin</a>	Filters access by the network origin (Internet or VPC)	String

Condition keys	Description	Type
<a href="#">s3-outposts:DataAccessPointAccount</a>	Filters access by the AWS Account ID that owns the access point	String
<a href="#">s3-outposts:DataAccessPointArn</a>	Filters access by an access point Amazon Resource Name (ARN)	ARN
<a href="#">s3-outposts:ExistingObjectTag/&lt;key&gt;</a>	Filters access by requiring that an existing object tag has a specific tag key and value	String
<a href="#">s3-outposts:RequestObjectTag/&lt;key&gt;</a>	Filters access by restricting the tag keys and values allowed on objects	String
<a href="#">s3-outposts:RequestObjectTagKeys</a>	Filters access by restricting the tag keys allowed on objects	String
<a href="#">s3-outposts:authType</a>	Filters access by restricting incoming requests to a specific authentication method	String
<a href="#">s3-outposts:delimiter</a>	Filters access by requiring the delimiter parameter	String
<a href="#">s3-outposts:max-keys</a>	Filters access by limiting the maximum number of keys returned in a ListBucket request	Numeric
<a href="#">s3-outposts:prefix</a>	Filters access by key name prefix	String

Condition keys	Description	Type
<a href="#">s3-outposts:signatureAge</a>	Filters access by identifying the length of time, in milliseconds, that a signature is valid in an authenticated request	Numeric
<a href="#">s3-outposts:signatureversion</a>	Filters access by identifying the version of AWS Signature that is supported for authenticated requests	String
<a href="#">s3-outposts:versionid</a>	Filters access by a specific object version	String
<a href="#">s3-outposts:x-amz-acl</a>	Filters access by requiring the x-amz-acl header with a specific canned ACL in a request	String
<a href="#">s3-outposts:x-amz-content-sha256</a>	Filters access by disallowing unsigned content in your bucket	String
<a href="#">s3-outposts:x-amz-copy-source</a>	Filters access by restricting the copy source to a specific bucket, prefix, or object	String
<a href="#">s3-outposts:x-amz-metadata-directive</a>	Filters access by enabling enforcement of object metadata behavior (COPY or REPLACE) when objects are copied	String
<a href="#">s3-outposts:x-amz-server-side-encryption</a>	Filters access by requiring server-side encryption	String
<a href="#">s3-outposts:x-amz-storage-class</a>	Filters access by storage class	String

## Actions, resources, and condition keys for Amazon S3 Tables

Amazon S3 Tables (service prefix: `s3tables`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon S3 Tables](#)
- [Resource types defined by Amazon S3 Tables](#)
- [Condition keys for Amazon S3 Tables](#)

### Actions defined by Amazon S3 Tables

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNamespace</a>	Grants permission to create a namespace	Write	<a href="#">TableBucket*</a>		
<a href="#">CreateTable</a>	Grants permission to create a table	Write	<a href="#">TableBucket*</a>		
				<a href="#">s3tables:</a> <a href="#">namespace</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3tables:SSEAlgorithm</a> <a href="#">s3tables:KMSKeyArr</a> <a href="#">s3tables:TableBucketTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTableBucket</a>	Grants permission to create a table bucket	Write	<a href="#">TableBucket*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3tables:SSEAlgorithm</a> <a href="#">s3tables:KMSKeyArr</a> <a href="#">s3tables:TableBucketTag/\${TagKey}</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteNamespace</a>	Grants permission to delete a namespace	Write	<a href="#">TableBucket*</a>	<a href="#">s3tables:namespace</a>	
<a href="#">DeleteTable</a>	Grants permission to delete a table	Write	<a href="#">Table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3tables: namespace</a>  <a href="#">s3tables: tableName</a>	
<a href="#">DeleteTableBucket</a>	Grants permission to delete a table bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">DeleteTableBucketEncryption</a>	Grants permission to delete encryption configuration on a table bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">DeleteTableBucketMetricsConfiguration</a>	Grants permission to delete a metrics configuration on a table bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">DeleteTableBucketPolicy</a>	Grants permission to delete a policy on a table bucket	Permissions management	<a href="#">TableBucket*</a>		
<a href="#">DeleteTableBucketReplication</a>	Grants permission to delete table bucket replication configuration on a bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">DeleteTablePolicy</a>	Grants permission to delete a policy on a table	Permissions management	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a>  <a href="#">s3tables: tableName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTableReplication</a>	Grants permission to delete table replication configuration on a table	Write	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetNamespace</a>	Grants permission to get a namespace	Read	<a href="#">TableBucket*</a>	<a href="#">s3tables: namespace</a>	
<a href="#">GetTable</a>	Grants permission to retrieve a table	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetTableBucket</a>	Grants permission to retrieve a table bucket	Read	<a href="#">TableBucket*</a>		
<a href="#">GetTableBucketEncryption</a>	Grants permission to retrieve encryption configuration on a table bucket	Read	<a href="#">TableBucket*</a>		
<a href="#">GetTableBucketMaintenanceConfiguration</a>	Grants permission to retrieve a maintenance configuration on a table bucket	Read	<a href="#">TableBucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTableBucketMetricsConfiguration</a>	Grants permission to retrieve a metrics configuration on a bucket	Read	<a href="#">TableBucket*</a>		
<a href="#">GetTableBucketPolicy</a>	Grants permission to retrieve a policy on a table bucket	Read	<a href="#">TableBucket*</a>		
<a href="#">GetTableBucketReplication</a>	Grants permission to retrieve a table bucket replication configuration on a bucket	Read	<a href="#">TableBucket*</a>		
<a href="#">GetTableBucketStorageClass</a>	Grants permission to retrieve the storage class configuration for a table bucket	Read	<a href="#">TableBucket*</a>		
<a href="#">GetTableData</a> [permission only]	Grants permission to read metadata and data objects from a table storage endpoint using S3 APIs	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetTableEncryption</a>	Grants permission to retrieve encryption configuration on a table	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTableMaintenanceConfiguration</a>	Grants permission to retrieve a maintenance configuration on a table	Read	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	
<a href="#">GetTableMaintenanceJobStatus</a>	Grants permission to retrieve the status of maintenance jobs on a table	Read	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	
<a href="#">GetTableMetadataLocation</a>	Grants permission to retrieve the metadata location of a table	Read	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	
<a href="#">GetTablePolicy</a>	Grants permission to retrieve a policy on a table	Read	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTableRecordExpirationConfiguration</a>	Grants permission to retrieve a table maintenance configuration on a system table	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetTableRecordExpirationJobStatus</a>	Grants permission to retrieve the status of table record expiration jobs on a system table	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetTableReplication</a>	Grants permission to retrieve a table replication configuration on a table	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetTableReplicationStatus</a>	Grants permission to retrieve a table replication status on a table	Read	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">GetTableStorageClass</a>	Grants permission to retrieve the storage class configuration for a specific table	Read	<a href="#">Table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3tables: namespace</a>	
				<a href="#">s3tables: tableName</a>	
<a href="#">ListNamespaces</a>	Grants permission to list namespaces	List	<a href="#">TableBucket*</a>		
<a href="#">ListTable Buckets</a>	Grants permission to list table buckets	List			
<a href="#">ListTables</a>	Grants permission to list tables	List	<a href="#">TableBucket*</a>		
				<a href="#">s3tables: namespace</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for an S3 Tables resource	List	<a href="#">Table</a>		
			<a href="#">TableBucket</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">s3tables: TableBucketTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutTableBucketEncryption</a>	Grants permission to put or overwrite encryption configuration on a table bucket	Write	<a href="#">TableBucket*</a>	<a href="#">s3tables:KMSKeyArn</a> <a href="#">s3tables:SSEAlgorithm</a>	
<a href="#">PutTableBucketMaintenanceConfiguration</a>	Grants permission to put a maintenance configuration on a table bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">PutTableBucketMetricsConfiguration</a>	Grants permission to create or overwrite a metrics configuration on a table bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">PutTableBucketPolicy</a>	Grants permission to create or overwrite a policy on a table bucket	Permissions management	<a href="#">TableBucket*</a>		
<a href="#">PutTableBucketReplication</a>	Grants permission to put table bucket replication configuration on a bucket	Write	<a href="#">TableBucket*</a>		
<a href="#">PutTableBucketStorageClass</a>	Grants permission to set or update the storage class configuration for a table bucket	Write	<a href="#">TableBucket*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3tables:StorageClass</a>	
<a href="#">PutTableData</a> [permission only]	Grants permission to write metadata and data objects to a table storage endpoint using S3 APIs	Write	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	
<a href="#">PutTableEncryption</a> [permission only]	Grants permission to put encryption configuration on a table	Write	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:SSEAlgorithm</a> <a href="#">s3tables:KMSKeyArn</a>	
<a href="#">PutTableMaintenanceConfiguration</a>	Grants permission to put a maintenance configuration on a table	Write	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutTablePolicy</a>	Grants permission to create or overwrite a policy on a table	Permissions management	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">PutTableRecordExpirationConfiguration</a>	Grants permission to put a table record expiration configuration on a system table	Write	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">PutTableReplication</a>	Grants permission to put table replication configuration on a table	Write	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a>	
<a href="#">PutTableStorageClass</a>	Grants permission to set or update the storage class configuration for a table	Write	<a href="#">Table*</a>	<a href="#">s3tables: namespace</a> <a href="#">s3tables: tableName</a> <a href="#">s3tables: StorageClass</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RenameTable</a>	Grants permission to rename a table or move a table across namespaces	Write	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	
<a href="#">TagResource</a>	Grants permission to tag a S3 Tables resource	Tagging	<a href="#">Table</a> <a href="#">TableBucket</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3tables:TableBucketTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a S3 Tables resource	Tagging	<a href="#">Table</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">TableBucket</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3tables:TableBucketTag/\${TagKey}</a>	
<a href="#">UpdateTableMetadataLocation</a>	Grants permission to update the metadata location of a table	Write	<a href="#">Table*</a>	<a href="#">s3tables:namespace</a> <a href="#">s3tables:tableName</a>	

## Resource types defined by Amazon S3 Tables

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">TableBucket</a>	arn:\${Partition}:s3tables:\${Region}:\${Account}:bucket/\${TableBucketName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3tables:TableBucketTag/\${TagKey}</a>
<a href="#">Table</a>	arn:\${Partition}:s3tables:\${Region}:\${Account}:bucket/\${TableBucketName}/table/\${TableID}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3tables:TableBucketTag/\${TagKey}</a>  <a href="#">s3tables:namespace</a>  <a href="#">s3tables:tableName</a>

## Condition keys for Amazon S3 Tables

Amazon S3 Tables defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">s3tables:KMSKeyArn</a>	Filters access by the AWS KMS key ARN for the key used to encrypt a table	ARN
<a href="#">s3tables:SSEAlgorithm</a>	Filters access by the server-side encryption algorithm used to encrypt a table	String
<a href="#">s3tables:StorageClass</a>	Filters access by the storage class that can be set on tables under a table bucket	String
<a href="#">s3tables:TableBucketTag/\${TagKey}</a>	Filters access by the tags associated with the table bucket	String
<a href="#">s3tables:namespace</a>	Filters access by the namespaces created in the table bucket	String
<a href="#">s3tables:tableName</a>	Filters access by the name of the tables in the table bucket	String

## Actions, resources, and condition keys for Amazon S3 Vectors

Amazon S3 Vectors (service prefix: `s3vectors`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon S3 Vectors](#)

- [Resource types defined by Amazon S3 Vectors](#)
- [Condition keys for Amazon S3 Vectors](#)

## Actions defined by Amazon S3 Vectors

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIndex</a>	Grants permission to create a new vector index within a specified vector bucket	Write	<a href="#">Index*</a>	<a href="#">s3vectors:sseType</a> <a href="#">s3vectors:kmsKeyArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3vectors:VectorBu</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">s3vectorTag/\$ {TagKey}</a>	
<a href="#">CreateVectorBucket</a>	Grants permission to create a new vector bucket	Write	<a href="#">VectorBucket*</a>	<a href="#">s3vectors:sseType</a> <a href="#">s3vectors:kmsKeyArn</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3vectors:VectorBucketTag/\$ {TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteIndex</a>	Grants permission to delete a specified vector index	Write	<a href="#">Index*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">DeleteVectorBucket</a>	Grants permission to delete a specified vector bucket	Write	<a href="#">VectorBucket*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">DeleteVectorBucketPolicy</a>	Grants permission to delete the IAM resource policy from a specified vector bucket	Permissions management	<a href="#">VectorBucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">DeleteVectors</a>	Grants permission to delete a batch of vectors from a specified vector index	Write	<a href="#">Index*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">GetIndex</a>	Grants permission to get the attributes of a specified vector index	Read	<a href="#">Index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">GetVectorBucket</a>	Grants permission to get the attributes of a specified vector bucket	Read	<a href="#">VectorBucket*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">GetVectorBucketPolicy</a>	Grants permission to get the IAM resource policy for a specific vector bucket	Read	<a href="#">VectorBucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">GetVectors</a>	Grants permission to get a batch of vectors by their vector keys	Read	<a href="#">Index*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">ListIndexes</a>	Grants permission to get a paginated list of all indexes in a specified vector bucket	List	<a href="#">VectorBucket*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list tags for specified S3Vector resource	List	<a href="#">Index</a>  <a href="#">VectorBucket</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">ListVectorBuckets</a>	Grants permission to get a paginated list of all vector buckets in the account	List		<a href="#">s3vectors:VectorBucketTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListVectors</a>	Grants permission to get a paginated list of all vectors in a specified vector index	List	<a href="#">Index*</a>		s3vectors:GetVectors
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutVectorBucketPolicy</a>	Grants permission to add an IAM resource policy to a specified vector bucket	Permissions management	<a href="#">VectorBucket*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	<a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>
<a href="#">PutVectors</a>	Grants permission to add a batch of vectors to a specified vector index	Write	<a href="#">Index*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">QueryVectors</a>	Grants permission to find approximate nearest neighbors within a specified search vector index for a given query vector	Read	<a href="#">Index*</a>		s3vectors:GetVectors
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a S3Vector resource	Tagging	<a href="#">Index</a>  <a href="#">VectorBucket</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a S3Vector resource	Tagging	<a href="#">Index</a> <a href="#">VectorBucket</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	

## Resource types defined by Amazon S3 Vectors

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Index</a>	arn:\${Partition}:s3vectors:\${Region}:\${Account}:bucket/\${BucketName}/index/\${IndexName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">VectorBucket</a>	arn:\${Partition}:s3vectors:\${Region}:\${Account}:bucket/\${BucketName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>

## Condition keys for Amazon S3 Vectors

Amazon S3 Vectors defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">s3vectors:VectorBucketTag/\${TagKey}</a>	Filters access by the tags associated with the vector bucket	String
<a href="#">s3vectors:kmsKeyArn</a>	Filters access by the AWS KMS key ARN for the key used to encrypt a vector bucket	ARN

Condition keys	Description	Type
<a href="#">s3vectors</a> <a href="#">:sseType</a>	Filters access by server-side encryption type	String

## Actions, resources, and condition keys for Amazon SageMaker

Amazon SageMaker (service prefix: `sagemaker`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon SageMaker](#)
- [Resource types defined by Amazon SageMaker](#)
- [Condition keys for Amazon SageMaker](#)

## Actions defined by Amazon SageMaker

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddAssociation</a>	Grants permission to associate a lineage entity (artifact, context, action,	Write	<a href="#">action*</a> <a href="#">artifact*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	experiment, experiment-trial-component) to each other		<a href="#">context*</a> <a href="#">experiment*</a> <a href="#">experiment-trial-component*</a>		
<a href="#">AddTags</a>	Grants permission to add or overwrite one or more tags for the specified Amazon SageMaker resource	Tagging	<a href="#">action</a> <a href="#">algorithm</a> <a href="#">app</a> <a href="#">app-image-config</a> <a href="#">artifact</a> <a href="#">automl-job</a> <a href="#">cluster</a> <a href="#">cluster-scheduler-config</a> <a href="#">code-repository</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">compilation-job</a>		
			<a href="#">compute-quota</a>		
			<a href="#">context</a>		
			<a href="#">data-quality-job-definition</a>		
			<a href="#">device</a>		
			<a href="#">device-fleet</a>		
			<a href="#">domain</a>		
			<a href="#">edge-deployment-plan</a>		
			<a href="#">edge-packaging-job</a>		
			<a href="#">endpoint</a>		
			<a href="#">endpoint-config</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">experiment</a>		
			<a href="#">experiment-trial</a>		
			<a href="#">experiment-trial-component</a>		
			<a href="#">feature-group</a>		
			<a href="#">flow-definition</a>		
			<a href="#">hub</a>		
			<a href="#">hub-content</a>		
			<a href="#">human-task-ui</a>		
			<a href="#">hyperparameter-tuning-job</a>		
			<a href="#">image</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">inference-componen</a> <a href="#">t</a>		
			<a href="#">inference-recommen</a> <a href="#">dations-j</a> <a href="#">ob</a>		
			<a href="#">labeling-</a> <a href="#">job</a>		
			<a href="#">mlflow-</a> <a href="#">app</a>		
			<a href="#">mlflow-tr</a> <a href="#">acking-se</a> <a href="#">rver</a>		
			<a href="#">model</a>		
			<a href="#">model-</a> <a href="#">bias-</a> <a href="#">job-def</a> <a href="#">inition</a>		
			<a href="#">model-</a> <a href="#">card</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model-expainability-job-definition</a>		
			<a href="#">model-package</a>	<a href="#">sagemaker:CurrentModelLifeCycleStageStatus</a> <a href="#">sagemaker:CurrentModelLifeCycleStage</a> <a href="#">sagemaker:CurrentCustomerMetadataProperties/{MetadataKey}</a>	
			<a href="#">model-package-group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model-quality-job-definition</a>		
			<a href="#">monitoring-schedule</a>		
			<a href="#">notebook-instance</a>		
			<a href="#">notebook-instance-lifecycle-config</a>		
			<a href="#">optimization-job</a>		
			<a href="#">partner-app</a>		
			<a href="#">pipeline</a>		
			<a href="#">processing-job</a>		
			<a href="#">project</a>		
			<a href="#">reserved-capacity</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">space</a>  <a href="#">studio-lifecycle-config</a>  <a href="#">training-job</a>  <a href="#">training-plan</a>  <a href="#">transform-job</a>  <a href="#">user-profile</a>  <a href="#">workteam</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker:TaggingAction</a>	
<a href="#">AssociateTrialComponent</a>	Grants permission to associate a trial component with a trial	Write	<a href="#">experiment-trial*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AttachClusterNodeVolume</a>	Grants permission to attach an Amazon EBS volume to a SageMaker HyperPod cluster node	Write	<a href="#">experiment-trial-component*</a> <a href="#">cluster*</a>		ec2:AttachVolume  ec2:DescribeVolumes  eks:DescribeCluster
<a href="#">BatchAddClusterNodes</a>	Grants permission to add multiple nodes at a time to a SageMaker HyperPod cluster	Write	<a href="#">cluster*</a>		eks:DescribeCluster
<a href="#">BatchDeleteClusterNodes</a>	Grants permission to batch delete SageMaker HyperPod cluster nodes	Write	<a href="#">cluster*</a>		eks:DescribeCluster

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDescribeModelPackage</a>	Grants permission to describe one or more ModelPackages	Read	<a href="#">model-package*</a>	<a href="#">sagemaker:CurrentModelLifecycleStageStatus</a> <a href="#">sagemaker:CurrentModelLifecycleStage</a> <a href="#">sagemaker:CurrentCustomerMetadataProperties/{MetadataKey}</a>	
<a href="#">BatchGetMetrics</a>	Grants permission to retrieve metrics associated with SageMaker Resources such as Training Jobs or Trial Components	Read	<a href="#">experiment-trial-component*</a> <a href="#">training-job*</a>		
<a href="#">BatchGetRecord</a>	Grants permission to get a batch of records from one or more feature groups	Read	<a href="#">feature-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchPutMetrics</a>	Grants permission to publish metrics associated with a SageMaker Resource such as a Training Job or Trial Component	Write	<a href="#">experiment-trial-component*</a>  <a href="#">training-job*</a>		
<a href="#">CallMLflowAppApi</a>	Grants permission to invoke MLflow APIs	Write	<a href="#">mlflow-app*</a>		
<a href="#">CallPartnerAppApi</a>	Grants permission for Partner App SDK to access the Partner App for reading or writing data use cases	Write	<a href="#">partner-app*</a>		
<a href="#">CreateAction</a>	Grants permission to create an action	Write	<a href="#">action*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateAlgorithm</a>	Grants permission to create an algorithm	Write	<a href="#">algorithm*</a>		sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateApp</a>	Grants permission to create an App for a SageMaker UserProfile or Space	Write	<a href="#">app*</a>		sagemaker:AddTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:ImageArns</a> <a href="#">sagemaker:ImageVersionArns</a> <a href="#">sagemaker:OwnerUserProfileArn</a> <a href="#">sagemaker:SpaceSharingType</a> <a href="#">sagemaker:StudioLifecycleConfigArns</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAppImageConfig</a>	Grants permission to create an AppImageConfig	Write	<a href="#">app-image-config*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sagemaker:AddTags
<a href="#">CreateArtifact</a>	Grants permission to create an artifact	Write	<a href="#">artifact*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sagemaker:AddTags
<a href="#">CreateAutoMLJob</a>	Grants permission to create an AutoML job	Write	<a href="#">automl-job*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker:InterContainerTrafficEncryption</a>  <a href="#">sagemaker:OutputKmsKey</a>  <a href="#">sagemaker:VolumeKmsKey</a>  <a href="#">sagemaker:VpcSecurityGroups</a>  <a href="#">sagemaker:VpcSubnets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAutoMLJobV2</a>	Grants permission to create a V2 AutoML job	Write	<a href="#">automl-job*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InterContainerTrafficEncryption</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCluster</a>	Grants permission to create a SageMaker HyperPod cluster	Write	<a href="#">cluster*</a>		ec2:DescribeImages ec2:DescribeSnapshots ec2:ModifyImageAttribute ec2:ModifySnapshotAttribute eks:AssociateAccessPolicy eks:CreateAccessEntry eks>DeleteAccessEntry eks:DescribeAccessEntry eks:DescribeCluster

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:CreateServiceLinkedRole iam:PassRole sagemaker:AddTags
			<a href="#">reserved-capacity</a>		
			<a href="#">training-plan</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:InstanceTypes</a>  <a href="#">sagemaker</a> <a href="#">:VpcSecurityGroups</a>  <a href="#">sagemaker</a> <a href="#">:VpcSubnets</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateClusterSchedulerConfig</a>	Grants permission to create a cluster scheduler config	Write	<a href="#">cluster*</a>		eks:AssociateAccessPolicy  eks:DescribeCluster  eks:ListAssociatedAccessPolicies  sagemaker:AddTags  sagemaker:DescribeCluster
			<a href="#">cluster-scheduler-config*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCodeRepository</a>	Grants permission to create a CodeRepository	Write	<a href="#">code-repository*</a>		sagemaker:AddTags
<a href="#">CreateCompilationJob</a>	Grants permission to create a compilation job	Write	<a href="#">compilation-job*</a>		iam:PassRole sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateComputeQuota</a>	Grants permission to create a compute quota	Write	<a href="#">cluster*</a>		eks:AssociateAccessPolicy  eks:DescribeCluster  eks:ListAssociatedAccessPolicies  sagemaker:AddTags  sagemaker:DescribeCluster
			<a href="#">compute-quota*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateContext</a>	Grants permission to create a context	Write	<a href="#">context*</a>		sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataQualityJobDefinition</a>	Grants permission to create a data quality job definition	Write	<a href="#">data-quality-job-definition*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:InterContainerTrafficEncryption</a> <a href="#">sagemaker:MaxRuntimeInSeconds</a> <a href="#">sagemaker:NetworkSolution</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateDeviceFleet</a>	Grants permission to create a device fleet	Write	<a href="#">device-fleet*</a>		iam:PassRole sagemaker:AddTags
<a href="#">CreateDomain</a>	Grants permission to create a Domain for SageMaker Studio	Write	<a href="#">domain*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:AppNetworkAccessType</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a> <a href="#">sagemaker:DomainSharingOutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:ImageArns</a> <a href="#">sagemaker:ImageVersionArns</a> <a href="#">sagemaker:StudioLifecycleConfigArns</a>	
<a href="#">CreateEdgeDeploymentPlan</a>	Grants permission to create an edge deployment plan	Write	<a href="#">edge-deployment-plan*</a>		iam:PassRole sagemaker:AddTags
<a href="#">CreateEdgeDeploymentStage</a>	Grants permission to create an edge deployment stage	Write	<a href="#">edge-deployment-plan*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole sagemaker:AddTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEdgePackagingJob</a>	Grants permission to create an edge packaging job	Write	<a href="#">edge-packaging-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole sagemaker:AddTags
<a href="#">CreateEndpoint</a>	Grants permission to create an endpoint using the endpoint configuration specified in the request	Write	<a href="#">endpoint*</a> <a href="#">endpoint-config*</a>		sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateEndpointConfig</a>	Grants permission to create an endpoint configuration that can be deployed using Amazon SageMaker hosting services	Write	<a href="#">endpoint-config*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:AcceleratorTypes</a>  <a href="#">sagemaker</a> <a href="#">:InstanceTypes</a>  <a href="#">sagemaker</a> <a href="#">:ModelArn</a>  <a href="#">sagemaker</a> <a href="#">:VolumeKeysKey</a>  <a href="#">sagemaker</a> <a href="#">:ServerlessMaxConcurrency</a>  <a href="#">sagemaker</a> <a href="#">:ServerlessMemorySize</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:NetworkInsulation</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateExperiment</a>	Grants permission to create an experiment	Write	<a href="#">experiment*</a>		sagemaker:AddTags
<a href="#">CreateFeatureGroup</a>	Grants permission to create a feature group	Write	<a href="#">feature-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:FeatureGroupOnlineStoreKmsKey</a>  <a href="#">sagemaker</a> <a href="#">:FeatureGroupOfflineStoreKmsKey</a>  <a href="#">sagemaker</a> <a href="#">:FeatureGroupOfflineStoreS3Uri</a>  <a href="#">sagemaker</a> <a href="#">:FeatureGroupEnableOnlineStore</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:FeatureGroupOfflineStoreConfigure</a> <a href="#">sagemaker:FeatureGroupDisableGlueTableCreation</a>	
<a href="#">CreateFlowDefinition</a>	Grants permission to create a flow definition, which defines settings for a human workflow	Write	<a href="#">flow-definition*</a>		iam:PassRole  sagemaker:AddTags
				<a href="#">sagemaker:WorkteamArn</a> <a href="#">sagemaker:WorkteamType</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateHub</a>	Grants permission to create a hub	Write	<a href="#">hub*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateHubContentPresignedUrls</a>	Grants permission to generate S3 presigned URLs with GetObject permission for accessing model artifacts	Read	<a href="#">hub*</a> <a href="#">hub-content*</a>		
<a href="#">CreateHubContentReference</a>	Grants permission to create hub content reference	Write	<a href="#">hub*</a> <a href="#">hub-content*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateHumanTaskUi</a>	Grants permission to define the settings you will use for the human review workflow user interface	Write	<a href="#">human-task-ui*</a>		sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateHyperParameterTuningJob</a>	Grants permission to create a hyper parameter tuning job that can be deployed using Amazon SageMaker	Write	<a href="#">hyper-parameter-tuning-job*</a>		iam:PassRole  sagemaker:AddTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemAccessMode</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemDirectoryPath</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemId</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemType</a>  <a href="#">sagemaker</a> <a href="#">:InstanceTypes</a>  <a href="#">sagemaker</a> <a href="#">:InterContainerTra</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">fffcEncryption</a> <a href="#">sagemaker:MaxRuntimeInSeconds</a> <a href="#">sagemaker:NetworkIsolation</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateImage</a>	Grants permission to create a SageMaker Image	Write	<a href="#">image*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateImageVersion</a>	Grants permission to create a SageMaker ImageVersion	Write	<a href="#">image*</a>		
<a href="#">CreateInferenceComponent</a>	Grants permission to create an inference component on an endpoint	Write	<a href="#">endpoint*</a>		sagemaker:AddTags
			<a href="#">inference-component*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:ModelArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateInferenceExperiment</a>	Grants permission to create an inference experiment	Write	<a href="#">inference-experiment*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  sagemaker:AddTags
<a href="#">CreateInferenceRecommendationsJob</a>	Grants permission to create an inference recommendations job	Write	<a href="#">inference-recommendations-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  sagemaker:AddTags
<a href="#">CreateLabelingJob</a>	Grants permission to start a labeling job. A labeling job takes unlabeled data in and produces labeled data as output, which can be used for training SageMaker models	Write	<a href="#">labeling-job*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:WorkteamArn</a> <a href="#">sagemaker:WorkteamType</a> <a href="#">sagemaker:VolumeKeysKey</a> <a href="#">sagemaker:OutputKeysKey</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateLineageGroupPolicy</a>	Grants permission to create a lineage group policy	Write			
<a href="#">CreateMLflowApp</a>	Grants permission to create an MLflow app	Write	<a href="#">mlflow-app*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateMLflowTrackingServer</a>	Grants permission to create an MLflow tracking server	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:PassRole sagemaker:AddTags
<a href="#">CreateModel</a>	Grants permission to create a model in Amazon SageMaker . In the request, you specify a name for the model and describe one or more containers	Write	<a href="#">model*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:NetworkInsulation</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a> <a href="#">sagemaker:DirectGatewayModelAccess</a>	
<a href="#">CreateModelBiasJobDefinition</a>	Grants permission to create a model bias job definition	Write	<a href="#">model-bias-job-definition*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:Instance</a> <a href="#">Types</a>  <a href="#">sagemaker</a> <a href="#">:InterCon</a> <a href="#">tainerTra</a> <a href="#">fficEncry</a> <a href="#">ption</a>  <a href="#">sagemaker</a> <a href="#">:MaxRunTi</a> <a href="#">meInSecon</a> <a href="#">ds</a>  <a href="#">sagemaker</a> <a href="#">:NetworkI</a> <a href="#">solation</a>  <a href="#">sagemaker</a> <a href="#">:OutputKm</a> <a href="#">sKey</a>  <a href="#">sagemaker</a> <a href="#">:VolumeKrn</a> <a href="#">sKey</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateModelCard</a>	Grants permission to create a model card	Write	<a href="#">model-card*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	sagemaker:AddTags
<a href="#">CreateModelCardExportJob</a>	Grants permission to create an export job for a model card	Write	<a href="#">model-card*</a>		
<a href="#">CreateModelExplainabilityJobDefinition</a>	Grants permission to create a model explainability job definition	Write	<a href="#">model-explainability-job-definition*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:InterContainerTrafficEncryption</a> <a href="#">sagemaker:MaxRuntimeInSeconds</a> <a href="#">sagemaker:NetworkSolution</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>sagemaker: VpcSecurityGroups</u></a>  <a href="#"><u>sagemaker: VpcSubnets</u></a>	
<a href="#"><u>CreateModelPackage</u></a>	Grants permission to create a ModelPackage	Write	<a href="#"><u>model-package</u></a>  <a href="#"><u>model-package-group</u></a>	<a href="#"><u>sagemaker: CurrentModelLifecycleStageStatus</u></a>  <a href="#"><u>sagemaker: CurrentModelLifecycleStage</u></a>  <a href="#"><u>sagemaker: CurrentCustomerMetadataProperties/{MetadataKey}</u></a>	sagemaker: AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker:ModelApprovalStatus</a>  <a href="#">sagemaker:CustomerMetadataProperties</a> <a href="#">/\${MetadataKey}</a>  <a href="#">sagemaker:ModelLifecycleStage</a>  <a href="#">sagemaker:ModelLifecycleStatus</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateModelPackageGroup</a>	Grants permission to create a ModelPackageGroup	Write	<a href="#">model-package-group*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateModelQualityJobDefinition</a>	Grants permission to create a model quality job definition	Write	<a href="#">model-quality-job-definition*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">sagemaker:InstanceTypes</a>	
				<a href="#">sagemaker:InterContainerTrafficEncryption</a>	
				<a href="#">sagemaker:MaxRuntimeInSeconds</a>	
				<a href="#">sagemaker:NetworkIsolation</a>	
				<a href="#">sagemaker:OutputKmsKey</a>	
				<a href="#">sagemaker:VolumeKmsKey</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateMonitoringSchedule</a>	Grants permission to create a monitoring schedule	Write	<a href="#">monitoring-schedule*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:Instance</a> <a href="#">Types</a>  <a href="#">sagemaker</a> <a href="#">:InterCon</a> <a href="#">tainerTra</a> <a href="#">fficEncry</a> <a href="#">ption</a>  <a href="#">sagemaker</a> <a href="#">:MaxRunTi</a> <a href="#">meInSecon</a> <a href="#">ds</a>  <a href="#">sagemaker</a> <a href="#">:NetworkI</a> <a href="#">solation</a>  <a href="#">sagemaker</a> <a href="#">:OutputKm</a> <a href="#">sKey</a>  <a href="#">sagemaker</a> <a href="#">:VolumeKrn</a> <a href="#">sKey</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateNotebookInstance</a>	Grants permission to create an Amazon SageMaker notebook instance. A notebook instance is an Amazon EC2 instance running on a Jupyter Notebook	Write	<a href="#">notebook-instance*</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions	
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:AcceleratorTypes</a>  <a href="#">sagemaker</a> <a href="#">:DirectInternetAccess</a>  <a href="#">sagemaker</a> <a href="#">:InstanceTypes</a>  <a href="#">sagemaker</a> <a href="#">:MinimumInstanceMetadataServiceVersion</a>  <a href="#">sagemaker</a> <a href="#">:RootAccess</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VolumeKmsKey</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a>	
<a href="#">CreateNotebookInstanceLifecycleConfig</a>	Grants permission to create a notebook instance lifecycle configuration that can be deployed using Amazon SageMaker	Write	<a href="#">notebook-instance-lifecycle-config*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateOptimizationJob</a>	Grants permission to create an optimization job	Write	<a href="#">optimization-job*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePartnerApp</a>	Grants permission to create an Amazon SageMaker Partner AI App	Write	<a href="#">partner-app*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePartnerAppPresignedUrl</a>	Grants permission to return a URL that you can use from your browser to connect to the Amazon SageMaker Partner AI App	Write	<a href="#">partner-app*</a>		
<a href="#">CreatePipeline</a>	Grants permission to create a pipeline	Write	<a href="#">pipeline*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreatePreSignedDomainUrl</a>	Grants permission to return a URL that you can use from your browser to connect to the Domain as a specified UserProfile when AuthMode is 'IAM'	Write	<a href="#">user-profile*</a>		
<a href="#">CreatePreSignedMlflowAppUrl</a>	Grants permission to return a URL that you can use from your browser to connect to the MLflow app	Write	<a href="#">mlflow-app*</a>		
<a href="#">CreatePreSignedMlflowTrackingServerUrl</a>	Grants permission to return a URL that you can use from your browser to connect to the MLflow tracking server	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePreSignedNotebookInstanceUrl</a>	Grants permission to create a URL that you can use from your browser to connect to the Notebook Instance	Write	<a href="#">notebook-instance*</a>		
<a href="#">CreateProcessingJob</a>	Grants permission to start a processing job. After processing completes, Amazon SageMaker saves the resulting artifacts and other optional output to an Amazon S3 location that you specify	Write	<a href="#">processing-job*</a>		iam:PassRole sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:MaxRuntimeInSeconds</a> <a href="#">sagemaker:NetworkSolutions</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a> <a href="#">sagemaker:VpcSecurityGroups</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VpcSubnets</a>  <a href="#">sagemaker:InterContainerTrafficEncryption</a>	
<a href="#">CreateProject</a>	Grants permission to create a Project	Write	<a href="#">project*</a>		sagemaker:AddTags
<a href="#">CreateReservedCapacity</a> [permission only]	Grants permission to create a reserved capacity	Write	<a href="#">reserved-capacity*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSharedModel</a> [permission only]	Grants permission to create a shared model in a SageMaker Studio application	Write	<a href="#">shared-model*</a>		
<a href="#">CreateSpace</a>	Grants permission to create a Space for a SageMaker Domain	Write	<a href="#">space*</a>		sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker:InstanceTypes</a>  <a href="#">sagemaker:ImageArns</a>  <a href="#">sagemaker:ImageVersionArns</a>  <a href="#">sagemaker:OwnerUserProfileArn</a>  <a href="#">sagemaker:RemoteAccess</a>  <a href="#">sagemaker:SpaceSharingType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:StudioLifecycleConfigArns</a>	
<a href="#">CreateStudioLifecycleConfig</a>	Grants permission to create a Studio Lifecycle Configuration that can be deployed using Amazon SageMaker	Write	<a href="#">studio-lifecycle-config*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTrainingJob</a>	Grants permission to start a model training job. After training completes, Amazon SageMaker saves the resulting model artifacts and other optional output to an Amazon S3 location that you specify	Write	<a href="#">training-job*</a>  <a href="#">reserved-capacity</a>  <a href="#">training-plan</a>		iam:PassRole  sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions	
				<a href="#">aws:RequestTag/</a> <a href="#">\${T</a> <a href="#">agKey}</a>  <a href="#">aws:TagKeys</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemAccessMode</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemDirectoryPath</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemId</a>  <a href="#">sagemaker</a> <a href="#">:FileSystemType</a>  <a href="#">sagemaker</a> <a href="#">:InstanceTypes</a>  <a href="#">sagemaker</a> <a href="#">:InterContainerTra</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ffcEncryption</a> <a href="#">sagemaker:MaxRuntimeInSeconds</a> <a href="#">sagemaker:NetworkIsolation</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:VpcSubnets</a> <a href="#">sagemaker:KeepAlivePeriod</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:EnableRemoteDebugging</a> <a href="#">sagemaker:DirectGatewayModelAccess</a>	
<a href="#">CreateTrainingPlan</a>	Grants permission to create a training plan that allocates resources for scheduling workloads within a specified time range	Write	<a href="#">training-plan*</a>		sagemaker:AddTags  sagemaker:CreateReservedCapacity
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTransformJob</a>	Grants permission to start a transform job. After the results are obtained, Amazon SageMaker saves them to an Amazon S3 location that you specify	Write	<a href="#">transform-job*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:ModelArn</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a>	sagemaker:AddTags
<a href="#">CreateTrial</a>	Grants permission to create a trial	Write	<a href="#">experiment*</a> <a href="#">experiment-trial*</a>		sagemaker:AddTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTrialComponent</a>	Grants permission to create a trial component	Write	<a href="#">experiment-trial-component*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	sagemaker:AddTags
<a href="#">CreateUserProfile</a>	Grants permission to create a UserProfile for a SageMaker Domain	Write	<a href="#">user-profile*</a>		iam:PassRole  sagemaker:AddTags



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:DomainSharingOutputKmsKey</a> <a href="#">sagemaker:ImageArns</a> <a href="#">sagemaker:ImageVersionArns</a> <a href="#">sagemaker:StudioLi</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">fecycleConfigArns</a>	
<a href="#">CreateWorkforce</a>	Grants permission to create a workforce	Write	<a href="#">workforce*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkteam</a>	Grants permission to create a workteam	Write	<a href="#">workteam*</a>		sagemaker:AddTags
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAction</a>	Grants permission to delete an action	Write	<a href="#">action*</a>		
<a href="#">DeleteAlgorithm</a>	Grants permission to delete an algorithm	Write	<a href="#">algorithm*</a>		
<a href="#">DeleteApp</a>	Grants permission to delete an App	Write	<a href="#">app*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:OwnerUserProfileArn</a> <a href="#">sagemaker:SpaceSharingType</a>	
<a href="#">DeleteAppImageConfig</a>	Grants permission to delete an AppImageConfig	Write	<a href="#">app-image-config*</a>		
<a href="#">DeleteArtifact</a>	Grants permission to delete an artifact	Write	<a href="#">artifact*</a>		
<a href="#">DeleteAssociation</a>	Grants permission to delete the association from a lineage entity (artifact, context, action, experiment, experiment-trial-component) to another	Write	<a href="#">action*</a>		
			<a href="#">artifact*</a>		
			<a href="#">context*</a>		
			<a href="#">experiment*</a>		
			<a href="#">experiment-trial-component*</a>		
<a href="#">DeleteCluster</a>	Grants permission to delete a SageMaker HyperPod cluster	Write	<a href="#">cluster*</a>		eks:DeleteAccessEntry

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteClusterSchedulerConfig</a>	Grants permission to delete a cluster scheduler config	Write	<a href="#">cluster-scheduler-config*</a>		
<a href="#">DeleteCodeRepository</a>	Grants permission to delete a CodeRepository	Write	<a href="#">code-repository*</a>		
<a href="#">DeleteCompilationJob</a>	Grants permission to delete a compilation job	Write	<a href="#">compilation-job*</a>		
<a href="#">DeleteComputeQuota</a>	Grants permission to delete a compute quota	Write	<a href="#">compute-quota*</a>		
<a href="#">DeleteContext</a>	Grants permission to delete a context	Write	<a href="#">context*</a>		
<a href="#">DeleteDataQualityJobDefinition</a>	Grants permission to delete the data quality job definition created using the CreateDataQualityJobDefinition API	Write	<a href="#">data-quality-job-definition*</a>		
<a href="#">DeleteDeviceFleet</a>	Grants permission to delete a device fleet	Write	<a href="#">device-fleet*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete a Domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteEdgeDeploymentPlan</a>	Grants permission to delete an edge deployment plan	Write	<a href="#">edge-deployment-plan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEdgeDeploymentStage</a>	Grants permission to delete an edge deployment stage	Write	<a href="#">edge-deployment-plan*</a>		
<a href="#">DeleteEndpoint</a>	Grants permission to delete an endpoint. Amazon SageMaker frees up all the resources that were deployed when the endpoint was created	Write	<a href="#">endpoint*</a>		
<a href="#">DeleteEndpointConfig</a>	Grants permission to delete the endpoint configuration created using the CreateEndpointConfig API. The DeleteEndpointConfig API deletes only the specified configuration. It does not delete any endpoints created using the configuration	Write	<a href="#">endpoint-config*</a>		
<a href="#">DeleteExperiment</a>	Grants permission to delete an experiment	Write	<a href="#">experiment*</a>		
<a href="#">DeleteFeatureGroup</a>	Grants permission to delete a feature group	Write	<a href="#">feature-group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFlowDefinition</a>	Grants permission to delete the specified flow definition	Write	<a href="#">flow-definition*</a>		
<a href="#">DeleteHub</a>	Grants permission to delete hubs	Write	<a href="#">hub*</a>		
<a href="#">DeleteHubContent</a>	Grants permission to delete hub content	Write	<a href="#">hub*</a> <a href="#">hub-content*</a>		
<a href="#">DeleteHubContentReference</a>	Grants permission to delete hub content reference	Write	<a href="#">hub*</a> <a href="#">hub-content*</a>		
<a href="#">DeleteHumanLoop</a>	Grants permission to delete a specified human loop	Write	<a href="#">human-loop*</a>		
<a href="#">DeleteHumanTaskUi</a>	Grants permission to delete the specified human task user interface (worker task template)	Write	<a href="#">human-task-ui*</a>		
<a href="#">DeleteHyperParameterTuningJob</a>	Grants permission to delete a hyper parameter tuning job	Write	<a href="#">hyper-parameter-tuning-job*</a>		
<a href="#">DeleteImage</a>	Grants permission to delete a SageMaker Image	Write	<a href="#">image*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteImageVersion</a>	Grants permission to delete a SageMaker ImageVersion	Write	<a href="#">image-version*</a>		
<a href="#">DeleteInferenceComponent</a>	Grants permission to delete an inference component. Amazon SageMaker frees up the resources that were reserved when the inference component was created	Write	<a href="#">inference-component*</a>		
<a href="#">DeleteInferenceExperiment</a>	Grants permission to delete an inference experiment	Write	<a href="#">inference-experiment*</a>		
<a href="#">DeleteLineageGroupPolicy</a>	Grants permission to delete a lineage group policy	Write			
<a href="#">DeleteMLflowApp</a>	Grants permission to delete an MLflow app	Write	<a href="#">mlflow-app*</a>		
<a href="#">DeleteMLflowTrackingServer</a>	Grants permission to delete an MLflow tracking server	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteModel</a>	Grants permission to delete a model created using the CreateModel API. The DeleteModel API deletes only the model entry in Amazon SageMaker that you created by calling the CreateModel API. It does not delete model artifacts, inference code, or the IAM role that you specified when creating the model	Write	<a href="#">model*</a>		
<a href="#">DeleteModelBiasJobDefinition</a>	Grants permission to delete the model bias job definition created using the CreateModelBiasJobDefinition API	Write	<a href="#">model-bias-job-definition*</a>		
<a href="#">DeleteModelCard</a>	Grants permission to delete a model card	Write	<a href="#">model-card*</a>		
<a href="#">DeleteModelExplainabilityJobDefinition</a>	Grants permission to delete the model explainability job definition created using the CreateModelExplainabilityJobDefinition API	Write	<a href="#">model-explainability-job-definition*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteModelPackage</a>	Grants permission to delete a ModelPackage	Write	<a href="#">model-package*</a>	<a href="#">sagemaker:CurrentModelLifecycleStageStatus</a> <a href="#">sagemaker:CurrentModelLifecycleStage</a> <a href="#">sagemaker:CurrentCustomerMetadataProperties/{MetadataKey}</a>	
<a href="#">DeleteModelPackageGroup</a>	Grants permission to delete a ModelPackageGroup	Write	<a href="#">model-package-group*</a>		
<a href="#">DeleteModelPackageGroupPolicy</a>	Grants permission to delete a ModelPackageGroup policy	Write	<a href="#">model-package-group*</a>		
<a href="#">DeleteModelQualityJobDefinition</a>	Grants permission to delete the model quality job definition created using the CreateModelQualityJobDefinition API	Write	<a href="#">model-quality-job-definition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMonitoringSchedule</a>	Grants permission to delete a monitoring schedule	Write	<a href="#">monitoring-schedule*</a>		
<a href="#">DeleteNotebookInstance</a>	Grants permission to delete a Amazon SageMaker notebook instance. Before you can delete a notebook instance, you must call the StopNotebookInstance API	Write	<a href="#">notebook-instance*</a>		
<a href="#">DeleteNotebookInstanceLifecycleConfiguration</a>	Grants permission to delete a notebook instance lifecycle configuration	Write	<a href="#">notebook-instance-lifecycle-config*</a>		
<a href="#">DeleteOptimizationJob</a>	Grants permission to delete an optimization job	Write	<a href="#">optimization-job*</a>		
<a href="#">DeletePartnerApp</a>	Grants permission to delete an Amazon SageMaker Partner AI App	Write	<a href="#">partner-app*</a>		
<a href="#">DeletePipeline</a>	Grants permission to delete a pipeline	Write	<a href="#">pipeline*</a>		
<a href="#">DeleteProject</a>	Grants permission to delete a project	Write	<a href="#">project*</a>		
<a href="#">DeleteRecord</a>	Grants permission to delete a record from a feature group	Write	<a href="#">feature-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants AWS Resource Access Manager permission to delete a resource policy on a SageMaker resource that supports cross-account sharing	Write			
<a href="#">DeleteSpace</a>	Grants permission to delete a Space	Write	<a href="#">space*</a>	<a href="#">sagemaker:OwnerUserProfileArn</a> <a href="#">sagemaker:SpaceSharingType</a>	
<a href="#">DeleteStudioLifecycleConfig</a>	Grants permission to delete a Studio Lifecycle Configuration	Write	<a href="#">studio-lifecycle-config*</a>		
<a href="#">DeleteTags</a>	Grants permission to delete the specified set of tags from an Amazon SageMaker resource	Tagging	<a href="#">action</a> <a href="#">algorithm</a> <a href="#">app</a> <a href="#">app-image-config</a> <a href="#">artifact</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">automl-job</a>		
			<a href="#">cluster</a>		
			<a href="#">cluster-scheduler-config</a>		
			<a href="#">code-repository</a>		
			<a href="#">compilation-job</a>		
			<a href="#">compute-quota</a>		
			<a href="#">context</a>		
			<a href="#">data-quality-job-definition</a>		
			<a href="#">device</a>		
			<a href="#">device-fleet</a>		
			<a href="#">domain</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">edge-deployment-plan</a>		
			<a href="#">edge-packaging-job</a>		
			<a href="#">endpoint</a>		
			<a href="#">endpoint-config</a>		
			<a href="#">experiment</a>		
			<a href="#">experiment-trial</a>		
			<a href="#">experiment-trial-component</a>		
			<a href="#">feature-group</a>		
			<a href="#">flow-definition</a>		
			<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">hub-content</a>		
			<a href="#">human-task-ui</a>		
			<a href="#">hyperparameter-tuning-job</a>		
			<a href="#">image</a>		
			<a href="#">inference-component</a>		
			<a href="#">inference-recommendations-job</a>		
			<a href="#">labeling-job</a>		
			<a href="#">mlflow-app</a>		
			<a href="#">mlflow-tracking-server</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model</a>		
			<a href="#">model-bias-job-definition</a>		
			<a href="#">model-card</a>		
			<a href="#">model-explainability-job-definition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model-package</a>	<a href="#">sagemaker:CurrentModelLifecycleStageStatus</a> <a href="#">sagemaker:CurrentModelLifecycleStage</a> <a href="#">sagemaker:CurrentCustomerMetadataProperties/{MetadataKey}</a>	
			<a href="#">model-package-group</a>		
			<a href="#">model-quality-job-definition</a>		
			<a href="#">monitoring-schedule</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">notebook-instance</a>		
			<a href="#">notebook-instance-lifecycle-config</a>		
			<a href="#">optimization-job</a>		
			<a href="#">partner-app</a>		
			<a href="#">pipeline</a>		
			<a href="#">processing-job</a>		
			<a href="#">project</a>		
			<a href="#">reserved-capacity</a>		
			<a href="#">space</a>		
			<a href="#">studio-lifecycle-config</a>		
			<a href="#">training-job</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">training-plan</a>		
			<a href="#">transform-job</a>		
			<a href="#">user-profile</a>		
			<a href="#">workteam</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">DeleteTrial</a>	Grants permission to delete a trial	Write	<a href="#">experiment-trial*</a>		
<a href="#">DeleteTrialComponent</a>	Grants permission to delete a trial component	Write	<a href="#">experiment-trial-component*</a>		
<a href="#">DeleteUserProfile</a>	Grants permission to delete a UserProfile	Write	<a href="#">user-profile*</a>		
<a href="#">DeleteWorkforce</a>	Grants permission to delete a workforce	Write	<a href="#">workforce*</a>		
<a href="#">DeleteWorkteam</a>	Grants permission to delete a workteam	Write	<a href="#">workteam*</a>		
<a href="#">DeployHubModel</a>	Grants permission to deploy a model in hub to an endpoint	Write	<a href="#">hub*</a>		
			<a href="#">hub-content*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeregisterDevices</a>	Grants permission to deregister a set of devices	Write	<a href="#">device*</a>		
<a href="#">DescribeAction</a>	Grants permission to get information about an action	Read	<a href="#">action*</a>		
<a href="#">DescribeAlgorithm</a>	Grants permission to describe an algorithm	Read	<a href="#">algorithm*</a>		
<a href="#">DescribeApp</a>	Grants permission to describe an App	Read	<a href="#">app*</a>		
<a href="#">DescribeAppImageConfig</a>	Grants permission to describe an AppImageConfig	Read	<a href="#">app-image-config*</a>		
<a href="#">DescribeArtifact</a>	Grants permission to get information about an artifact	Read	<a href="#">artifact*</a>		
<a href="#">DescribeAutoMLJob</a>	Grants permission to describe an AutoML job that was created via the CreateAutoMLJob API	Read	<a href="#">automl-job*</a>		
<a href="#">DescribeAutoMLJobV2</a>	Grants permission to describe an AutoML job that was created via the CreateAutoMLJobV2 API	Read	<a href="#">automl-job*</a>		
<a href="#">DescribeCluster</a>	Grants permission to return information about a SageMaker HyperPod cluster	Read	<a href="#">cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClusterEvent</a>	Grants permission to return information about an Event within a SageMaker HyperPod cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeClusterInference</a> [permission only]	Grants permission to get information about the inference operator for a SageMaker HyperPod cluster	Read	<a href="#">cluster*</a>		
<a href="#">DescribeClusterNode</a>	Grants permission to return information about a SageMaker HyperPod cluster node	Read	<a href="#">cluster*</a>		
<a href="#">DescribeClusterSchedulerConfig</a>	Grants permission to get information about a cluster scheduler config	Read	<a href="#">cluster-scheduler-config*</a>		
<a href="#">DescribeCodeRepository</a>	Grants permission to describe a CodeRepository	Read	<a href="#">code-repository*</a>		
<a href="#">DescribeCompilationJob</a>	Grants permission to return information about a compilation job	Read	<a href="#">compilation-job*</a>		
<a href="#">DescribeComputeQuota</a>	Grants permission to get information about a compute quota	Read	<a href="#">compute-quota*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeContext</a>	Grants permission to get information about a context	Read	<a href="#">context*</a>		
<a href="#">DescribeDataQualityJobDefinition</a>	Grants permission to return information about a data quality job definition	Read	<a href="#">data-quality-job-definition*</a>		
<a href="#">DescribeDevice</a>	Grants permission to access information about a device	Read	<a href="#">device*</a>		
<a href="#">DescribeDeviceFleet</a>	Grants permission to access information about a device fleet	Read	<a href="#">device-fleet*</a>		
<a href="#">DescribeDomain</a>	Grants permission to describe a Domain	Read	<a href="#">domain*</a>		
<a href="#">DescribeEdgeDeploymentPlan</a>	Grants permission to access information about an edge deployment plan	Read	<a href="#">edge-deployment-plan*</a>		
<a href="#">DescribeEdgePackagingJob</a>	Grants permission to access information about an edge packaging job	Read	<a href="#">edge-packaging-job*</a>		
<a href="#">DescribeEndpoint</a>	Grants permission to return the description of an endpoint	Read	<a href="#">endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeEndpointConfig</a>	Grants permission to return the description of an endpoint configuration, which was created using the CreateEndpointConfig API	Read	<a href="#">endpoint-config*</a>		
<a href="#">DescribeExperiment</a>	Grants permission to return information about an experiment	Read	<a href="#">experiment*</a>		
<a href="#">DescribeFeatureGroup</a>	Grants permission to return information about a feature group	Read	<a href="#">feature-group*</a>		
<a href="#">DescribeFeatureMetadata</a>	Grants permission to return information about a feature metadata	Read	<a href="#">feature-group*</a>		
<a href="#">DescribeFlowDefinition</a>	Grants permission to return information about the specified flow definition	Read	<a href="#">flow-definition*</a>		
<a href="#">DescribeHub</a>	Grants permission to describe hubs	Read	<a href="#">hub*</a>		
<a href="#">DescribeHubContent</a>	Grants permission to describe hub content	Read	<a href="#">hub*</a> <a href="#">hub-content*</a>		
<a href="#">DescribeHumanLoop</a>	Grants permission to return information about the specified human loop	Read	<a href="#">human-loop*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeHumanTaskUi</a>	Grants permission to return detailed information about the specified human review workflow user interface	Read	<a href="#">human-task-ui*</a>		
<a href="#">DescribeHyperParameterTuningJob</a>	Grants permission to describe a hyper parameter tuning job that was created via the CreateHyperParameterTuningJob API	Read	<a href="#">hyper-parameter-tuning-job*</a>		
<a href="#">DescribeImage</a>	Grants permission to return information about a SageMaker Image	Read	<a href="#">image*</a>		
<a href="#">DescribeImageVersion</a>	Grants permission to return information about a SageMaker ImageVersion	Read	<a href="#">image-version*</a>		
<a href="#">DescribeInferenceComponent</a>	Grants permission to return the description of an inference component	Read	<a href="#">inference-component*</a>		
<a href="#">DescribeInferenceExperiment</a>	Grants permission to get information about an inference experiment	Read	<a href="#">inference-experiment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInferenceRecommendationsJob</a>	Grants permission to get information about an inference recommendations job	Read	<a href="#">inference-recommendations-job*</a>		
<a href="#">DescribeLabelingJob</a>	Grants permission to return information about a labeling job	Read	<a href="#">labeling-job*</a>		
<a href="#">DescribeLineageGroup</a>	Grants permission to describe a lineage group	Read			
<a href="#">DescribeMLflowApp</a>	Grants permission to get information about an MLflow app	Read	<a href="#">mlflow-app*</a>		
<a href="#">DescribeMLflowTrackingServer</a>	Grants permission to get information about an MLflow tracking server	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeModel</a>	Grants permission to describe a model that you created using the CreateModel API	Read	<a href="#">model*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeModelBiasJobDefinition</a>	Grants permission to return information about a model bias job definition	Read	<a href="#">model-bias-job-definition*</a>		
<a href="#">DescribeModelCard</a>	Grants permission to get information about a model card	Read	<a href="#">model-card*</a>		
<a href="#">DescribeModelCardExportJob</a>	Grants permission to get information about a model card export job	Read	<a href="#">model-card-export-job*</a>		
<a href="#">DescribeModelExplainabilityJobDefinition</a>	Grants permission to return information about a model explainability job definition	Read	<a href="#">model-explainability-job-definition*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeModelPackage</a>	Grants permission to describe a ModelPackage	Read	<a href="#">model-package*</a>	<a href="#">sagemaker:CurrentModelLifecycleStageStatus</a> <a href="#">sagemaker:CurrentModelLifecycleStage</a> <a href="#">sagemaker:CurrentCustomerMetadataProperties/{MetadataKey}</a>	
<a href="#">DescribeModelPackageGroup</a>	Grants permission to describe a ModelPackageGroup	Read	<a href="#">model-package-group*</a>		
<a href="#">DescribeModelQualityJobDefinition</a>	Grants permission to return information about a model quality job definition	Read	<a href="#">model-quality-job-definition*</a>		
<a href="#">DescribeMonitoringSchedule</a>	Grants permission to return information about a monitoring schedule	Read	<a href="#">monitoring-schedule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeNotebookInstance</a>	Grants permission to return information about a notebook instance	Read	<a href="#">notebook-instance*</a>		
<a href="#">DescribeNotebookInstanceLifecycleConfiguration</a>	Grants permission to describe a notebook instance lifecycle configuration that was created via the CreateNotebookInstanceLifecycleConfiguration API	Read	<a href="#">notebook-instance-lifecycle-config*</a>		
<a href="#">DescribeOptimizationJob</a>	Grants permission to return information about an optimization job	Read	<a href="#">optimization-job*</a>		
<a href="#">DescribePartnerApp</a>	Grants permission to describe an Amazon SageMaker Partner AI App	Read	<a href="#">partner-app*</a>		
<a href="#">DescribePipeline</a>	Grants permission to get information about a pipeline	Read	<a href="#">pipeline*</a>	<a href="#">sagemaker:PipelineVersionId</a>	
<a href="#">DescribePipelineDefinitionForExecution</a>	Grants permission to get the pipeline definition for a pipeline execution	Read	<a href="#">pipeline-execution*</a>		
<a href="#">DescribePipelineExecution</a>	Grants permission to get information about a pipeline execution	Read	<a href="#">pipeline-execution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeProcessingJob</a>	Grants permission to return information about a processing job	Read	<a href="#">processing-job*</a>		
<a href="#">DescribeProject</a>	Grants permission to describe a project	Read	<a href="#">project*</a>		
<a href="#">DescribeReservedCapacity</a>	Grants permission to return information about a specified Reserved Capacity	Read	<a href="#">reserved-capacity*</a>		
<a href="#">DescribeSharedModel</a> [permission only]	Grants permission to describe a shared model in a SageMaker Studio application	Read	<a href="#">shared-model*</a>		
<a href="#">DescribeSpace</a>	Grants permission to describe a Space	Read	<a href="#">space*</a>		
<a href="#">DescribeStudioLifecycleConfiguration</a>	Grants permission to describe a Studio Lifecycle Configuration	Read	<a href="#">studio-lifecycle-configuration*</a>		
<a href="#">DescribeSubscribedWorkteam</a>	Grants permission to return information about a subscribed workteam	Read	<a href="#">workteam*</a>		
<a href="#">DescribeTrainingJob</a>	Grants permission to return information about a training job	Read	<a href="#">training-job*</a>		
<a href="#">DescribeTrainingPlan</a>	Grants permission to return information about a specified training plan	Read	<a href="#">training-plan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeTransformJob</a>	Grants permission to return information about a transform job	Read	<a href="#">transform-job*</a>		
<a href="#">DescribeTrial</a>	Grants permission to return information about a trial	Read	<a href="#">experiment-trial*</a>		
<a href="#">DescribeTrialComponent</a>	Grants permission to return information about a trial component	Read	<a href="#">experiment-trial-component*</a>		
<a href="#">DescribeUserProfile</a>	Grants permission to describe a UserProfile	Read	<a href="#">user-profile*</a>		
<a href="#">DescribeWorkforce</a>	Grants permission to return information about a workforce	Read	<a href="#">workforce*</a>		
<a href="#">DescribeWorkteam</a>	Grants permission to return information about a workteam	Read	<a href="#">workteam*</a>		
<a href="#">DetachClusterNodeVolume</a>	Grants permission to detach an Amazon EBS volume from a SageMaker HyperPod cluster node	Write	<a href="#">cluster*</a>		ec2:DescribeVolumes ec2:DetachVolume eks:DescribeCluster

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableSagemakerServicecatalogPortfolio</a>	Grants permission to disable a SageMaker Service Catalog Portfolio	Write			
<a href="#">DisassociateTrialComponent</a>	Grants permission to disassociate a trial component from a trial	Write	<a href="#">experiment-trial*</a>		
			<a href="#">experiment-trial-component*</a>		
			<a href="#">processing-job*</a>		
<a href="#">EnableSagemakerServicecatalogPortfolio</a>	Grants permission to enable a SageMaker Service Catalog Portfolio	Write			
<a href="#">GetDeployments</a>	Grants permission to get deployment plan for device	Read	<a href="#">device*</a>		
<a href="#">GetDeviceFleetReport</a>	Grants permission to access a summary of the devices in a device fleet	Read	<a href="#">device-fleet*</a>		
<a href="#">GetDeviceRegistration</a>	Grants permission to get device registration. After you deploy a model onto edge devices this api is used to get current device registration	Read	<a href="#">device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetLineageGroupPolicy</a>	Grants permission to retrieve a lineage group policy	Read			
<a href="#">GetModelPackageGroupPolicy</a>	Grants permission to get a ModelPackageGroup policy	Read	<a href="#">model-package-group*</a>		
<a href="#">GetRecord</a>	Grants permission to get a record from a feature group	Read	<a href="#">feature-group*</a>		
<a href="#">GetResourcePolicy</a> [permission only]	Grants AWS Resource Access Manager permission to retrieve a resource policy on a SageMaker resource that supports cross-account sharing	Read			
<a href="#">GetSageMakerServiceCatalogPortfolioStatus</a>	Grants permission to get a SageMaker Service Catalog Portfolio	Read			
<a href="#">GetScalingConfigurationRecommendation</a>	Grants permission to get a scaling policy configuration recommendation	Read	<a href="#">inference-recommendations-job*</a>		
<a href="#">GetSearchSuggestions</a>	Grants permission to get search suggestions when provided with a keyword	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportHubContent</a>	Grants permission to import hub content	Write	<a href="#">hub*</a>		sagemaker:AddTags
			<a href="#">hub-content*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">InvokeEndpoint</a>	Grants permission to invoke an endpoint. After you deploy a model into production using Amazon SageMaker hosting services, your client applications use this API to get inferences from the model hosted at the specified endpoint	Read	<a href="#">endpoint*</a>		
			<a href="#">inference-component</a>		
				<a href="#">sagemaker:TargetModel</a>	
<a href="#">InvokeEndpointAsync</a>	Grants permission to get inferences from the hosted model at the specified endpoint in an asynchronous manner	Read	<a href="#">endpoint*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">InvokeEndpointWithResponseStream</a>	Grants permission to get the inference response as a stream from the specified endpoint	Read	<a href="#">endpoint*</a> <a href="#">inference-component</a>		
<a href="#">ListActions</a>	Grants permission to list actions	List			
<a href="#">ListAlgorithms</a>	Grants permission to list Algorithms	List			
<a href="#">ListAliases</a>	Grants permission to list Aliases that belong to a SageMaker Image or Sagemaker ImageVersion	List	<a href="#">image*</a> <a href="#">image-version*</a>		
<a href="#">ListAppImageConfigs</a>	Grants permission to list the AppImageConfigs in your account	List			
<a href="#">ListApps</a>	Grants permission to list the Apps in your account	List			
<a href="#">ListArtifacts</a>	Grants permission to list artifacts	List			
<a href="#">ListAssociations</a>	Grants permission to list associations	List			
<a href="#">ListAutoMLJobs</a>	Grants permission to list AutoML jobs	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCandidatesForAutoMLJob</a>	Grants permission to lists candidates for an AutoML job	List			
<a href="#">ListClusterEvents</a>	Grants permission to list events within a SageMaker HyperPod cluster	List	<a href="#">cluster*</a>		
<a href="#">ListClusterNodes</a>	Grants permission to list nodes within a SageMaker HyperPod cluster	List	<a href="#">cluster*</a>		
<a href="#">ListClusterSchedulerConfigs</a>	Grants permission to list cluster scheduler configs	List			
<a href="#">ListClusters</a>	Grants permission to list SageMaker HyperPod clusters	List			
<a href="#">ListCodeRepositories</a>	Grants permission to list code repositories	List			
<a href="#">ListCompilationJobs</a>	Grants permission to list compilation jobs	List			
<a href="#">ListComputeQuotas</a>	Grants permission to list compute quotas	List			
<a href="#">ListContexts</a>	Grants permission to list contexts	List			
<a href="#">ListDataQualityJobDefinitions</a>	Grants permission to list data quality job definitions	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDeviceFleets</a>	Grants permission to list device fleets	List			
<a href="#">ListDevices</a>	Grants permission to list devices	List			
<a href="#">ListDomains</a>	Grants permission to list the Domains in your account	List			
<a href="#">ListEdgeDeploymentPlans</a>	Grants permission to list edge deployment plans	List			
<a href="#">ListEdgePackagingJobs</a>	Grants permission to list edge packaging jobs	List			
<a href="#">ListEndpointConfigs</a>	Grants permission to list endpoint configurations	List			
<a href="#">ListEndpoints</a>	Grants permission to list endpoints	List			
<a href="#">ListExperiments</a>	Grants permission to list experiments	List			
<a href="#">ListFeatureGroups</a>	Grants permission to list feature groups	List			
<a href="#">ListFlowDefinitions</a>	Grants permission to return summary information about flow definitions, given the specified parameters	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListHubContentVersions</a>	Grants permission to list all versions of hub content	List	<a href="#">hub*</a> <a href="#">hub-content*</a>		
<a href="#">ListHubContents</a>	Grants permission to list newest versions of hub content	List	<a href="#">hub*</a>		
<a href="#">ListHubs</a>	Grants permission to list hubs	List			
<a href="#">ListHumanLoops</a>	Grants permission to return summary information about human loops, given the specified parameters	List			
<a href="#">ListHumanTaskUis</a>	Grants permission to return summary information about human review workflow user interfaces, given the specified parameters	List			
<a href="#">ListHyperParameterTuningJobs</a>	Grants permission to list hyper parameter tuning jobs	List			
<a href="#">ListImageVersions</a>	Grants permission to list ImageVersions that belong to a SageMaker Image	List	<a href="#">image*</a>		
<a href="#">ListImages</a>	Grants permission to list SageMaker Images in your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInferenceComponents</a>	Grants permission to list inference components	List			
<a href="#">ListInferenceExperiments</a>	Grants permission to list inference experiments	List			
<a href="#">ListInferenceRecommendationsJobSteps</a>	Grants permission to list inference recommendations job steps	List			
<a href="#">ListInferenceRecommendationsJobs</a>	Grants permission to list inference recommendations jobs	List			
<a href="#">ListLabelingJobs</a>	Grants permission to list labeling jobs	List			
<a href="#">ListLabelingJobsForWorkteam</a>	Grants permission to list labeling jobs for workteam	List	<a href="#">workteam*</a>		
<a href="#">ListLineageGroups</a>	Grants permission to list lineage groups	List			
<a href="#">ListMLflowApps</a>	Grants permission to list SageMaker MLflow Apps in your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMlflowTrackingServers</a>	Grants permission to list MLflow tracking servers	List			
<a href="#">ListModelBiasJobDefinitions</a>	Grants permission to list model bias job definitions	List			
<a href="#">ListModelCardExportJobs</a>	Grants permission to list export jobs for a model card	List	<a href="#">model-card*</a>		
<a href="#">ListModelCardVersions</a>	Grants permission to list versions of a model card	List	<a href="#">model-card*</a>		
<a href="#">ListModelCards</a>	Grants permission to list model cards	List			
<a href="#">ListModelExplainabilityJobDefinitions</a>	Grants permission to list model explainability job definitions	List			
<a href="#">ListModelMetadata</a>	Grants permission to list model metadata for inference recommendations jobs	List			
<a href="#">ListModelPackageGroups</a>	Grants permission to list ModelPackageGroups	List			
<a href="#">ListModelPackages</a>	Grants permission to list ModelPackages	List	<a href="#">model-package</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListModelQualityJobsDefinitions</a>	Grants permission to list model quality job definitions	List			
<a href="#">ListModels</a>	Grants permission to list the models created with the CreateModel API	List			
<a href="#">ListMonitoringAlertHistory</a>	Grants permission to list the history of a monitoring alert	List			
<a href="#">ListMonitoringAlerts</a>	Grants permission to list monitoring alerts	List			
<a href="#">ListMonitoringExecutions</a>	Grants permission to list monitoring executions	List			
<a href="#">ListMonitoringSchedules</a>	Grants permission to list monitoring schedules	List			
<a href="#">ListNotebookInstanceLifecycleConfigs</a>	Grants permission to list the notebook instance lifecycle configurations that can be deployed using Amazon SageMaker	List			
<a href="#">ListNotebookInstances</a>	Grants permission to list the Amazon SageMaker notebook instances in the requester's account in an AWS Region	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOptimizationJobs</a>	Grants permission to list optimization jobs	List			
<a href="#">ListPartnerApps</a>	Grants permission to list the Amazon SageMaker Partner AI Apps in your account	List			
<a href="#">ListPipelineExecutionSteps</a>	Grants permission to list steps for a pipeline execution	List	<a href="#">pipeline-execution*</a>		
<a href="#">ListPipelineExecutions</a>	Grants permission to list executions for a pipeline	List	<a href="#">pipeline*</a>		
<a href="#">ListPipelineParametersForExecution</a>	Grants permission to list parameters for a pipeline execution	List	<a href="#">pipeline-execution*</a>		
<a href="#">ListPipelineVersions</a>	Grants permission to list versions of a pipeline	List	<a href="#">pipeline*</a>		
<a href="#">ListPipelines</a>	Grants permission to list pipelines	List			
<a href="#">ListProcessingJobs</a>	Grants permission to list processing jobs	List			
<a href="#">ListProjects</a>	Grants permission to list Projects	List			
<a href="#">ListResourceCatalogs</a>	Grants permission to list resource catalogs	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSharedModelEvents</a> [permission only]	Grants permission to list shared model events	List			
<a href="#">ListSharedModelVersions</a> [permission only]	Grants permission to list shared model versions	List	<a href="#">shared-model*</a>		
<a href="#">ListSharedModels</a> [permission only]	Grants permission to list shared models	List			
<a href="#">ListSpaces</a>	Grants permission to list the Spaces in your account	List			
<a href="#">ListStageDevices</a>	Grants permission to list stage devices	List			
<a href="#">ListStudioLifecycleConfigs</a>	Grants permission to list the Studio Lifecycle Configurations that can be deployed using Amazon SageMaker	List			
<a href="#">ListSubscribedWorkteams</a>	Grants permission to list subscribed workteams	List			
<a href="#">ListTags</a>	Grants permission to list the tag set associated with the specified resource	List	<a href="#">action</a> <a href="#">algorithm</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">app</a>		
			<a href="#">app-image-config</a>		
			<a href="#">artifact</a>		
			<a href="#">automl-job</a>		
			<a href="#">cluster</a>		
			<a href="#">cluster-scheduler-config</a>		
			<a href="#">code-repository</a>		
			<a href="#">compilation-job</a>		
			<a href="#">compute-quota</a>		
			<a href="#">context</a>		
			<a href="#">data-quality-job-definition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">device</a>		
			<a href="#">device-fleet</a>		
			<a href="#">domain</a>		
			<a href="#">edge-deployment-plan</a>		
			<a href="#">edge-packaging-job</a>		
			<a href="#">endpoint</a>		
			<a href="#">endpoint-config</a>		
			<a href="#">experiment</a>		
			<a href="#">experiment-trial</a>		
			<a href="#">experiment-trial-component</a>		
			<a href="#">feature-group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">flow-definition</a>		
			<a href="#">hub</a>		
			<a href="#">hub-content</a>		
			<a href="#">human-task-ui</a>		
			<a href="#">hyperparameter-tuning-job</a>		
			<a href="#">image</a>		
			<a href="#">inference-component</a>		
			<a href="#">inference-recommendations-job</a>		
			<a href="#">labeling-job</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mlflow-app</a>		
			<a href="#">mlflow-tracking-server</a>		
			<a href="#">model</a>		
			<a href="#">model-bias-job-definition</a>		
			<a href="#">model-card</a>		
			<a href="#">model-explainability-job-definition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">model-package</a>	<a href="#">sagemaker:CurrentModelLifecycleStageStatus</a> <a href="#">sagemaker:CurrentModelLifecycleStage</a> <a href="#">sagemaker:CurrentCustomerMetadataProperties/{MetadataKey}</a>	
			<a href="#">model-package-group</a>		
			<a href="#">model-quality-job-definition</a>		
			<a href="#">monitoring-schedule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">notebook-instance</a>		
			<a href="#">notebook-instance-lifecycle-config</a>		
			<a href="#">optimization-job</a>		
			<a href="#">partner-app</a>		
			<a href="#">pipeline</a>		
			<a href="#">pipeline-execution</a>		
			<a href="#">processing-job</a>		
			<a href="#">project</a>		
			<a href="#">reserved-capacity</a>		
			<a href="#">space</a>		
			<a href="#">studio-lifecycle-config</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">training-job</a>		
			<a href="#">training-plan</a>		
			<a href="#">transform-job</a>		
			<a href="#">user-profile</a>		
			<a href="#">workteam</a>		
<a href="#">ListTrainingJobs</a>	Grants permission to list training jobs	List			
<a href="#">ListTrainingJobsForHyperParameterTuningJob</a>	Grants permission to list training jobs for a hyper parameter tuning job	List	<a href="#">hyperparameter-tuning-job*</a>		
<a href="#">ListTrainingPlans</a>	Grants permission to list all the training plans that have been created in a specified account	List			
<a href="#">ListTransformJobs</a>	Grants permission to list transform jobs	List			
<a href="#">ListTrialComponents</a>	Grants permission to list trial components	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrials</a>	Grants permission to list trials	List			
<a href="#">ListUltraServersByReservedCapacity</a>	Grants permission to list all UltraServers in a specified Reserved Capacity	List	<a href="#">reserved-capacity*</a>		
<a href="#">ListUserProfile</a>	Grants permission to list the UserProfiles in your account	List			
<a href="#">ListWorkforces</a>	Grants permission to list workforces	List			
<a href="#">ListWorkteams</a>	Grants permission to list workteams	List			
<a href="#">PutLineageGroupPolicy</a>	Grants permission to put a lineage group policy	Write			
<a href="#">PutModelPackageGroupPolicy</a>	Grants permission to put a ModelPackageGroup policy	Write	<a href="#">model-package-group*</a>		
<a href="#">PutRecord</a>	Grants permission to put a record to a feature group	Write	<a href="#">feature-group*</a>		
<a href="#">PutResourcePolicy</a> [permission only]	Grants AWS Resource Access Manager permission to create a resource policy on a SageMaker resource that supports cross-account sharing	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">QueryLineage</a>	Grants permission to explore the lineage graph	List			
<a href="#">RegisterDevices</a>	Grants permission to register a set of devices	Write	<a href="#">device*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RenderUITemplate</a>	Grants permission to render a UI template used for a human annotation task	Read			iam:PassRole
<a href="#">RetryPipelineExecution</a>	Grants permission to retry a pipeline execution	Write	<a href="#">pipeline-execution*</a>		
<a href="#">Search</a>	Grants permission to search for SageMaker objects	Read		<a href="#">sagemaker:SearchVisibilityCondition/\${FilterKey}</a>	
<a href="#">SearchTrainingPlanOfferings</a>	Grants permissions to search for the available training plan offerings that best match specified capacity requirements	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendHeartbeat</a>	Grants permission to publish heartbeat data from devices. After you deploy a model onto edge devices this api is used to report device status	Write	<a href="#">device*</a>		
<a href="#">SendPipelineExecutionStepFailure</a>	Grants permission to fail a pending callback step	Write	<a href="#">pipeline-execution*</a>		
<a href="#">SendPipelineExecutionStepSuccess</a>	Grants permission to succeed a pending callback step	Write	<a href="#">pipeline-execution*</a>		
<a href="#">SendSharedModelEvent</a> [permission only]	Grants permission to send a shared model event	Write	<a href="#">shared-model-event*</a>		
<a href="#">StartEdgeDeploymentStage</a>	Grants permission to start an edge deployment stage	Write	<a href="#">edge-deployment-plan*</a>		
<a href="#">StartHumanLoop</a>	Grants permission to start a human loop	Write	<a href="#">flow-definition*</a>		
<a href="#">StartInferenceExperiment</a>	Grants permission to start an inference experiment	Write	<a href="#">inference-experiment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMlflowTrackingServer</a>	Grants permission to start an MLflow tracking server	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartMonitoringSchedule</a>	Grants permission to start a monitoring schedule	Write	<a href="#">monitoring-schedule*</a>		
<a href="#">StartNotebookInstance</a>	Grants permission to start a notebook instance. This launches an EC2 instance with the latest version of the libraries and attaches your EBS volume	Write	<a href="#">notebook-instance*</a>		
<a href="#">StartPipelineExecution</a>	Grants permission to start a pipeline execution	Write	<a href="#">pipeline*</a>	<a href="#">sagemaker:PipelineVersionId</a>	
<a href="#">StartSession</a>	Grants permission to start a remote session for a SageMaker space	Write	<a href="#">space*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopAutoMLJob</a>	Grants permission to stop a running AutoML job	Write	<a href="#">automl-job*</a>		
<a href="#">StopCompilationJob</a>	Grants permission to stop a compilation job	Write	<a href="#">compilation-job*</a>		
<a href="#">StopEdgeDeploymentStage</a>	Grants permission to stop an edge deployment stage	Write	<a href="#">edge-deployment-plan*</a>		
<a href="#">StopEdgePackagingJob</a>	Grants permission to stop an edge packaging job	Write	<a href="#">edge-packaging-job*</a>		
<a href="#">StopHumanLoop</a>	Grants permission to stop a specified human loop	Write	<a href="#">human-loop*</a>		
<a href="#">StopHyperParameterTuningJob</a>	Grants permission to stop a running hyper parameter tuning job create via the CreateHyperParameterTuningJob	Write	<a href="#">hyperparameter-tuning-job*</a>		
<a href="#">StopInferenceExperiment</a>	Grants permission to stop an inference experiment	Write	<a href="#">inference-experiment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopInferenceRecommendationJob</a>	Grants permission to stop an inference recommendations job	Write	<a href="#">inference-recommendations-job*</a>		
<a href="#">StopLabelingJob</a>	Grants permission to stop a labeling job. Any labels already generated will be exported before stopping	Write	<a href="#">labeling-job*</a>		
<a href="#">StopMlflowTrackingServer</a>	Grants permission to stop an MLflow tracking server	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopMonitoringSchedule</a>	Grants permission to stop a monitoring schedule	Write	<a href="#">monitoring-schedule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopNotebookInstance</a>	Grants permission to stop a notebook instance. This terminates the EC2 instance. Before terminating the instance, Amazon SageMaker disconnects the EBS volume from it. Amazon SageMaker preserves the EBS volume	Write	<a href="#">notebook-instance*</a>		
<a href="#">StopOptimizationJob</a>	Grants permission to stop an optimization job	Write	<a href="#">optimization-job*</a>		
<a href="#">StopPipelineExecution</a>	Grants permission to stop a pipeline execution	Write	<a href="#">pipeline-execution*</a>		
<a href="#">StopProcessingJob</a>	Grants permission to stop a processing job. To stop a job, Amazon SageMaker sends the algorithm the SIGTERM signal, which delays job termination for 120 seconds	Write	<a href="#">processing-job*</a>		
<a href="#">StopTrainingJob</a>	Grants permission to stop a training job. To stop a job, Amazon SageMaker sends the algorithm the SIGTERM signal, which delays job termination for 120 seconds	Write	<a href="#">training-job*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopTransformJob</a>	Grants permission to stop a transform job. When Amazon SageMaker receives a StopTransformJob request, the status of the job changes to Stopping. After Amazon SageMaker stops the job, the status is set to Stopped	Write	<a href="#">transform-job*</a>		
<a href="#">TrainHubModel</a>	Grants permission to train a model in hub	Write	<a href="#">hub*</a> <a href="#">hub-content*</a>		
<a href="#">UpdateAction</a>	Grants permission to update an action	Write	<a href="#">action*</a>		
<a href="#">UpdateAppImageConfig</a>	Grants permission to update an AppImageConfig	Write	<a href="#">app-image-config*</a>		
<a href="#">UpdateArtifact</a>	Grants permission to update an artifact	Write	<a href="#">artifact*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCluster</a>	Grants permission to update a SageMaker HyperPod cluster	Write	<a href="#">cluster*</a>		ec2:DescribeImages ec2:DescribeSnapshots ec2:ModifyImageAttribute ec2:ModifySnapshotAttribute eks:AssociateAccessPolicy eks:CreateAccessEntry eks>DeleteAccessEntry eks:DescribeAccessEntry eks:DescribeCluster

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:PassRole
					sagemaker:BatchAddClusterNodes
					sagemaker:BatchDeleteClusterNodes
			<a href="#">reserved-capacity</a>		
			<a href="#">training-plan</a>		
				<a href="#">sagemaker:InstanceTypes</a>	
				<a href="#">sagemaker:VpcSecurityGroups</a>	
				<a href="#">sagemaker:VpcSubnets</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateClusterInference</a> [permission only]	Grants permission to update the inference operator for a SageMaker HyperPod cluster	Write	<a href="#">cluster*</a>		eks:AssociateAccessPolicy  eks:DescribeCluster  eks:ListAssociatedAccessPolicies  iam:PassRole  sagemaker:DescribeCluster
<a href="#">UpdateClusterSchedulerConfig</a>	Grants permission to update a cluster scheduler config	Write	<a href="#">cluster-scheduler-config*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateClusterSoftware</a>	Grants permission to update platform software for a SageMaker HyperPod cluster	Write	<a href="#">cluster*</a>		ec2:DescribeImages ec2:DescribeSnapshots ec2:ModifyImageAttribute ec2:ModifySnapshotAttribute eks:DescribeCluster
<a href="#">UpdateCodeRepository</a>	Grants permission to update a CodeRepository	Write	<a href="#">code-repository*</a>		
<a href="#">UpdateComputeQuota</a>	Grants permission to update a compute quota	Write	<a href="#">compute-quota*</a>		
<a href="#">UpdateContext</a>	Grants permission to update a context	Write	<a href="#">context*</a>		
<a href="#">UpdateDeviceFleet</a>	Grants permission to update a device fleet	Write	<a href="#">device-fleet*</a>		
<a href="#">UpdateDevices</a>	Grants permission to update a set of devices	Write	<a href="#">device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDomain</a>	Grants permission to update a Domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:<u>VpcSecurityGroups</u></a> <a href="#">sagemaker:<u>InstanceTypes</u></a> <a href="#">sagemaker:<u>DomainSharingOutputKmsKey</u></a> <a href="#">sagemaker:<u>ImageArns</u></a> <a href="#">sagemaker:<u>ImageVersionArns</u></a> <a href="#">sagemaker:<u>AppNetworkAccessType</u></a> <a href="#">sagemaker:<u>VpcSubnets</u></a> <a href="#">sagemaker:<u>StudioLi</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">fecycleConfigurationArns</a>	
<a href="#">UpdateEndpoint</a>	Grants permission to update an endpoint to use the endpoint configuration specified in the request	Write	<a href="#">endpoint*</a>		
			<a href="#">endpoint-config*</a>		
<a href="#">UpdateEndpointWeightsAndCapacities</a>	Grants permission to update variant weight, capacity, or both of one or more variants associated with an endpoint	Write	<a href="#">endpoint*</a>		
<a href="#">UpdateExperiment</a>	Grants permission to update an experiment	Write	<a href="#">experiment*</a>		
<a href="#">UpdateFeatureGroup</a>	Grants permission to update a feature group	Write	<a href="#">feature-group*</a>		
<a href="#">UpdateFeatureMetadata</a>	Grants permission to update a feature metadata	Write	<a href="#">feature-group*</a>		
<a href="#">UpdateHub</a>	Grants permission to update hubs	Write	<a href="#">hub*</a>		
<a href="#">UpdateHubContent</a>	Grants permission to update hub content	Write	<a href="#">hub*</a>		
			<a href="#">hub-content*</a>		
<a href="#">UpdateHubContentReference</a>	Grants permission to update hub content reference	Write	<a href="#">hub*</a>		
			<a href="#">hub-content*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateImage</a>	Grants permission to update the properties of a SageMaker Image	Write	<a href="#">image*</a>		iam:PassRole
<a href="#">UpdateImageVersion</a>	Grants permission to update the properties of a SageMaker ImageVersion	Write	<a href="#">image-version*</a>		
<a href="#">UpdateInferenceComponent</a>	Grants permission to update an inference component to use the specification and configurations specified in the request	Write	<a href="#">inference-component*</a>		
<a href="#">UpdateInferenceComponentRuntimeConfig</a>	Grants permission to update the runtime config of a given inference component	Write	<a href="#">inference-component*</a>		
<a href="#">UpdateInferenceExperiment</a>	Grants permission to update an inference experiment	Write	<a href="#">inference-experiment*</a>		
<a href="#">UpdateMLflowApp</a>	Grants permission to update an MLflow app	Write	<a href="#">mlflow-app*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMLflowTrackingServer</a>	Grants permission to update an MLflow tracking server	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">sagemaker:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateModelCard</a>	Grants permission to update a model card	Write	<a href="#">model-card*</a>		
<a href="#">UpdateModelPackage</a>	Grants permission to update a ModelPackage	Write	<a href="#">model-package*</a>	<a href="#">sagemaker:CurrentModelLifecycleStageStatus</a>  <a href="#">sagemaker:CurrentModelLifecycleStage</a>  <a href="#">sagemaker:CurrentCustomerMetadataProperties/\${MetadataKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:ModelApprovalStatus</a> <a href="#">sagemaker:CustomerMetadataProperties/{MetadataKey}</a> <a href="#">sagemaker:CustomerMetadataPropertiesToRemove</a> <a href="#">sagemaker:ModelLifecycle:Stage</a> <a href="#">sagemaker:ModelLifecycle:StageStatus</a>	
<a href="#">UpdateMonitoringAlert</a>	Grants permission to update a monitoring alert	Write	<a href="#">monitoring-schedule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">monitoring-schedule-alert*</a>		
<a href="#">UpdateMonitoringSchedule</a>	Grants permission to update a monitoring schedule	Write	<a href="#">monitoring-schedule*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:MaxRuntimeInSeconds</a> <a href="#">sagemaker:NetworkSolutions</a> <a href="#">sagemaker:OutputKmsKey</a> <a href="#">sagemaker:VolumeKmsKey</a> <a href="#">sagemaker:VpcSecurityGroups</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:VpcSubnets</a>  <a href="#">sagemaker:InterContainerTrafficEncryption</a>	
<a href="#">UpdateNotebookInstance</a>	Grants permission to update a notebook instance. Notebook instance updates include upgrading or downgrading the EC2 instance used for your notebook instance to accommodate changes in your workload requirements	Write	<a href="#">notebook-instance*</a>	<a href="#">sagemaker:AcceleratorTypes</a>  <a href="#">sagemaker:InstanceTypes</a>  <a href="#">sagemaker:MinimumInstanceMetadataServiceVersion</a>  <a href="#">sagemaker:RootAccess</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotebookInstanceLifecycleConfig</a>	Grants permission to update a notebook instance lifecycle configuration created with the CreateNotebookInstanceLifecycleConfig API	Write	<a href="#">notebook-instance-lifecycle-config*</a>		
<a href="#">UpdatePartnerApp</a>	Grants permission to update an Amazon SageMaker Partner AI App	Write	<a href="#">partner-app*</a>		
<a href="#">UpdatePipeline</a>	Grants permission to update a pipeline	Write	<a href="#">pipeline*</a>		iam:PassRole
<a href="#">UpdatePipelineExecution</a>	Grants permission to update a pipeline execution	Write	<a href="#">pipeline-execution*</a>		
<a href="#">UpdatePipelineVersion</a>	Grants permission to update a pipeline version	Write	<a href="#">pipeline*</a>	<a href="#">sagemaker:PipelineVersionId</a>	
<a href="#">UpdateProject</a>	Grants permission to update a Project	Write	<a href="#">project*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSharedModel</a> [permission only]	Grants permission to update a shared model	Write	<a href="#">shared-model*</a>		
<a href="#">UpdateSpace</a>	Grants permission to update a Space	Write	<a href="#">space*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:ImageArns</a> <a href="#">sagemaker:ImageVersionArns</a> <a href="#">sagemaker:OwnerUserProfileArn</a> <a href="#">sagemaker:RemoteAccess</a> <a href="#">sagemaker:SpaceSharingType</a> <a href="#">sagemaker:StudioLifecycleConfigArns</a>	
<a href="#">UpdateTrainingJob</a>	Grants permission to update a training job	Write	<a href="#">training-job*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:KeepAlivePeriod</a> <a href="#">sagemaker:EnableRemoteDebugging</a>	
<a href="#">UpdateTrial</a>	Grants permission to update a trial	Write	<a href="#">experiment-trial*</a>		
<a href="#">UpdateTrialComponent</a>	Grants permission to update a trial component	Write	<a href="#">experiment-trial-component*</a>		
<a href="#">UpdateUserProfile</a>	Grants permission to update a UserProfile	Write	<a href="#">user-profile*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:VpcSecurityGroups</a> <a href="#">sagemaker:InstanceTypes</a> <a href="#">sagemaker:DomainSharingOutputKmsKey</a> <a href="#">sagemaker:ImageArns</a> <a href="#">sagemaker:ImageVersionArns</a> <a href="#">sagemaker:StudioLifecycleConfigArns</a>	
<a href="#">UpdateWorkforce</a>	Grants permission to update a workforce	Write	<a href="#">workforce*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWorkteam</a>	Grants permission to update a workteam	Write	<a href="#">workteam*</a>		

## Resource types defined by Amazon SageMaker

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">device</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:device-fleet/\${DeviceFleetName}/device/\${DeviceName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">device-fleet</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:device-fleet/\${DeviceFleetName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">edge-packaging-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:edge-packaging-job/\${EdgePackagingJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">edge-deployment-plan</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:edge-deployment/\${EdgeDeploymentPlanName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">human-loop</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:human-loop/\${HumanLoopName}	
<a href="#">flow-definition</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:flow-definition/\${FlowDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">human-task-ui</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:human-task-ui/\${HumanTaskUiName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">hub</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:hub/\${HubName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">hub-content</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:hub-content/\${HubName}/\${HubContentType}/\${HubContentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">inference-recommendations-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:inference-recommendations-job/\${InferenceRecommendationsJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">inference-experiment</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:inference-experiment/\${InferenceExperimentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">labeling-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:labeling-job/\${LabelingJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">workteam</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:workteam/\${WorkteamName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">workforce</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:workforce/\${WorkforceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">domain</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:domain/\${DomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">user-profile</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:user-profile/\${DomainId}/\${UserProfileName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">space</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:space/\${DomainId}/\${SpaceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">app</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:app/\${DomainId}/\${UserProfileName}/\${AppType}/\${AppName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">app-image-config</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:app-image-config/\${AppImageConfigName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">studio-lifecycle-config</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:studio-lifecycle-config/\${StudioLifecycleConfigName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">notebook-instance</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:notebook-instance/\${NotebookInstanceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">notebook-instance-lifecycle-config</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:notebook-instance-lifecycle-config/\${NotebookInstanceLifecycleConfigName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">code-repository</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:code-repository/\${CodeRepositoryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">image</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:image/\${ImageName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">image-version</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:image-version/\${ImageName}/\${Version}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">algorithm</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:algorithm/\${AlgorithmName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">cluster</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:cluster/\${ClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">training-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:training-job/\${TrainingJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">processing-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:processing-job/\${ProcessingJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">hyper-parameter-tuning-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:hyper-parameter-tuning-job/\${HyperParameterTuningJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">training-plan</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:training-plan/\${TrainingPlanName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">reserved-capacity</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:reserved-capacity/\${RandomString}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">project</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:project/\${ProjectName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">model-package</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-package/\${ModelPackageName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:CurrentCustomerMetadataProperties/\${MetadataKey}</a>  <a href="#">sagemaker:CurrentModelLifeCycleStage</a>  <a href="#">sagemaker:CurrentModelLifeCycleStageStatus</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model-package-group</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-package-group/\${ModelPackageName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model/\${ModelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">endpoint-config</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:endpoint-config/\${EndpointConfigName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">endpoint</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:endpoint/\${EndpointName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">inference-component</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:inference-component/\${InferenceComponentName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">transform-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:transform-job/\${TransformJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">compilation-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:compilation-job/\${CompilationJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">optimization-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:optimization-job/\${OptimizationJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">automl-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:automl-job/\${AutoMLJobJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">monitoring-schedule</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:monitoring-schedule/\${MonitoringScheduleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">monitoring-schedule-alert</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:monitoring-schedule/\${MonitoringScheduleName}/alert/\${MonitoringScheduleAlertName}	
<a href="#">data-quality-job-definition</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:data-quality-job-definition/\${DataQualityJobDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model-quality-job-definition</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-quality-job-definition/\${ModelQualityJobDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model-bias-job-definition</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-bias-job-definition/\${ModelBiasJobDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model-explainability-job-definition</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-explainability-job-definition/\${ModelExplainabilityJobDefinitionName}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">experiment</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:experiment/\${ExperimentName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">experiment-trial</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:experiment-trial/\${TrialName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">experiment-trial-component</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:experiment-trial-component/\${TrialComponentName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">feature-group</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:feature-group/\${FeatureGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">pipeline</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:pipeline/\${PipelineName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">pipeline-execution</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:pipeline/\${PipelineName}/execution/\${RandomString}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">artifact</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:artifact/\${HashOfArtifactSource}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">context</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:context/\${ContextName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">action</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:action/\${ActionName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">lineage-group</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:lineage-group/\${LineageGroupName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model-card</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-card/\${ModelCardName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">model-card-export-job</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:model-card/\${ModelCardName}/export-job/\${ExportJobName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">shared-model</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:shared-model/\${SharedModelId}	
<a href="#">shared-model-event</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:shared-model-event/\${EventId}	
<a href="#">sagemaker-catalog</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:sagemaker-catalog/\${ResourceCatalogName}	
<a href="#">mlflow-tracking-server</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:mlflow-tracking-server/\${MlflowTrackingServerName}	
<a href="#">mlflow-app</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:mlflow-app/\${MlflowAppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">compute-quota</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:compute-quota/\${ComputeQuotaId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>
<a href="#">cluster-scheduler-config</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:cluster-scheduler-config/\${ClusterSchedulerConfigId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">partner-app</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:partner-app/\${AppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">sagemaker:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon SageMaker

Amazon SageMaker defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a key that is present in the request the user makes to the SageMaker service	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names associated with the resource in the request	ArrayOfString
<a href="#">sagemaker:AcceleratorTypes</a>	Filters access by the list of all accelerator types associated with the resource in the request	ArrayOfString
<a href="#">sagemaker:AppNetworkAccessType</a>	Filters access by the app network access type associated with the resource in the request	String

Condition keys	Description	Type
<a href="#">sagemaker</a> <a href="#">:CurrentCustomerMetadataProperties/\${MetadataKey}</a>	Filters access by a current metadata key and value pair associated with the model-package resource	String
<a href="#">sagemaker</a> <a href="#">:CurrentModelLifecycleStage</a>	Filters access by the current value of the Stage field in the model life cycle object associated with the model-package resource	String
<a href="#">sagemaker</a> <a href="#">:CurrentModelLifecycleStageStatus</a>	Filters access by the current value of the StageStatus field in the model life cycle object associated with the model-package resource	String
<a href="#">sagemaker</a> <a href="#">:CustomerMetadataProperties/\${MetadataKey}</a>	Filters access by a metadata key and value pair	String
<a href="#">sagemaker</a> <a href="#">:CustomerMetadataPropertiesToRemove</a>	Filters access by the list of metadata properties associated with the model-package resource in the request	ArrayOfString
<a href="#">sagemaker</a> <a href="#">:DirectGatedModelAccess</a>	Used to deny direct access to SageMaker gated ModelReferences	String
<a href="#">sagemaker</a> <a href="#">:DirectInternetAccess</a>	Filters access by the direct internet access associated with the resource in the request	String



Condition keys	Description	Type
<a href="#">sagemaker:DomainId</a>	You can use the domainId as a policy variable to filter requests from specific SageMaker Domains	String
<a href="#">sagemaker:DomainSharingOutputKmsKey</a>	Filters access by the Domain sharing output KMS key associated with the resource in the request	ARN
<a href="#">sagemaker:EnableRemoteDebug</a>	Filters access by the remote debug config in the request	Bool
<a href="#">sagemaker:FeatureGroupDisableGlueTableCreation</a>	Filters access by the DisableGlueTableCreation flag associated with the feature group resource in the request	Bool
<a href="#">sagemaker:FeatureGroupEnableOnlineStore</a>	Filters access by the EnableOnlineStore flag associated with feature group in the request	Bool
<a href="#">sagemaker:FeatureGroupOfflineStoreConfig</a>	Filters access by the presence of an OfflineStoreConfig in the feature group resource in the request. This access filter only supports the null-conditional operator	Bool
<a href="#">sagemaker:FeatureGroupOfflineStoreKmsKey</a>	Filters access by the offline store kms key associated with the feature group resource in the request	ARN

Condition keys	Description	Type
<a href="#"><u>sagemaker:FeatureGroupOfflineStoreS3Uri</u></a>	Filters access by the offline store s3 uri associated with the feature group resource in the request	String
<a href="#"><u>sagemaker:FeatureGroupOnlineStoreKmsKey</u></a>	Filters access by the online store kms key associated with the feature group resource in the request	ARN
<a href="#"><u>sagemaker:FileSystemAccessMode</u></a>	Filters access by a file system access mode associated with the resource in the request	String
<a href="#"><u>sagemaker:FileSystemDirectoryPath</u></a>	Filters access by a file system directory path associated with the resource in the request	String
<a href="#"><u>sagemaker:FileSystemId</u></a>	Filters access by a file system ID associated with the resource in the request	String
<a href="#"><u>sagemaker:FileSystemType</u></a>	Filters access by a file system type associated with the resource in the request	String
<a href="#"><u>sagemaker:HomeEfsFileSystemKmsKey</u></a>	Filters access by a key that is present in the request the user makes to the SageMaker service. This key is deprecated. It has been replaced by sagemaker:VolumeKmsKey	ARN
<a href="#"><u>sagemaker:ImageArns</u></a>	Filters access by the list of all image arns associated with the resource in the request	ArrayOfARN
<a href="#"><u>sagemaker:ImageVersionArns</u></a>	Filters access by the list of all image version arns associated with the resource in the request	ArrayOfARN

Condition keys	Description	Type
<a href="#">sagemaker:InstanceTypes</a>	Filters access by the list of all instance types associated with the resource in the request	ArrayOfString
<a href="#">sagemaker:InterContainerTrafficEncryption</a>	Filters access by the inter container traffic encryption associated with the resource in the request	Bool
<a href="#">sagemaker:KeepAlivePeriod</a>	Filters access by the keep-alive period associated with the resource in the request	Numeric
<a href="#">sagemaker:MaxRuntimeInSeconds</a>	Filters access by the max runtime in seconds associated with the resource in the request	Numeric
<a href="#">sagemaker:MinimumInstanceMetadataServiceVersion</a>	Filters access by the minimum instance metadata service version used by the resource in the request	String
<a href="#">sagemaker:ModelApprovalStatus</a>	Filters access by the model approval status with the model-package in the request	String
<a href="#">sagemaker:ModelArn</a>	Filters access by the model arn associated with the resource in the request	ARN
<a href="#">sagemaker:ModelLifecycleCycle:Stage</a>	Filters access by stage field in the model life cycle object associated with the model-package resource in the request	String
<a href="#">sagemaker:ModelLifecycleCycle:StageStatus</a>	Filters access by stageStatus field in the model life cycle object associated with the model-package resource in the request	String

Condition keys	Description	Type
<a href="#">sagemaker:NetworkIsolation</a>	Filters access by the network isolation associated with the resource in the request	Bool
<a href="#">sagemaker:OutputKmsKey</a>	Filters access by the output kms key associated with the resource in the request	ARN
<a href="#">sagemaker:OwnerUserProfileArn</a>	Filters access by the OwnerUserProfile arn associated with the space in the request	ARN
<a href="#">sagemaker:PipelineVersionId</a>	Filters access to specific version IDs of a SageMaker pipeline	String
<a href="#">sagemaker:RemoteAccess</a>	Filters access by the remote access flag associated with the space in the request	String
<a href="#">sagemaker:ResourceTag/</a>	Filters access by the preface string for a tag key and value pair attached to a resource	String
<a href="#">sagemaker:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String
<a href="#">sagemaker:RootAccess</a>	Filters access by the root access associated with the resource in the request	String
<a href="#">sagemaker:SearchVisibilityCondition/\${FilterKey}</a>	Limits the results of your search request to the resources that you can access. <code>\${FilterKey}</code> is a key that the VisibilityConditions configuration presents in the Search request	String

Condition keys	Description	Type
<a href="#"><u>sagemaker:ServerlessMaxConcurrency</u></a>	Filters access by limiting maximum concurrency used for Serverless inference in the request	Numeric
<a href="#"><u>sagemaker:ServerlessMemorySize</u></a>	Filters access by limiting memory size used for Serverless inference in the request	Numeric
<a href="#"><u>sagemaker:SpaceSharingType</u></a>	Filters access by the sharing type associated with the space in the request	String
<a href="#"><u>sagemaker:StudioLifecycleConfigArns</u></a>	Filters access by the list of lifecycle configuration ARNs associated with the resource in the request	ArrayOfARN
<a href="#"><u>sagemaker:TaggingAction</u></a>	Filters access by the API actions to which a user can apply tags. Uses the name of the API operation that creates a taggable resource to filter access	String
<a href="#"><u>sagemaker:TargetModel</u></a>	Filters access by the target model associated with the Multi-Model Endpoint in the request	String
<a href="#"><u>sagemaker:UserProfileName</u></a>	You can use the UserProfileName as a policy variable to filter requests from specific user profiles within a SageMaker Domain. This context key is not applicable to user profiles within shared spaces	String
<a href="#"><u>sagemaker:VolumeKmsKey</u></a>	Filters access by the volume kms key associated with the resource in the request	ARN
<a href="#"><u>sagemaker:VpcSecurityGroupIds</u></a>	Filters access by the list of all VPC security group ids associated with the resource in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">sagemaker</a> <a href="#">:VpcSubnets</a>	Filters access by the list of all VPC subnets associated with the resource in the request	ArrayOfString
<a href="#">sagemaker</a> <a href="#">:WorkteamArn</a>	Filters access by the workteam arn associated to the request	ARN
<a href="#">sagemaker</a> <a href="#">:WorkteamType</a>	Filters access by the workteam type associated to the request. This can be public-crowd, private-crowd or vendor-crowd	String

## Actions, resources, and condition keys for Amazon SageMaker data science assistant

Amazon SageMaker data science assistant (service prefix: `sagemaker-data-science-assistant`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon SageMaker data science assistant](#)
- [Resource types defined by Amazon SageMaker data science assistant](#)
- [Condition keys for Amazon SageMaker data science assistant](#)

## Actions defined by Amazon SageMaker data science assistant

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendConversation</a> [permission only]	Grants permission to start a conversation with SageMaker data science assistant	Write			

## Resource types defined by Amazon SageMaker data science assistant

Amazon SageMaker data science assistant does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon SageMaker data science assistant, specify "Resource": "\*" in your policy.

## Condition keys for Amazon SageMaker data science assistant

SageMakerDataScienceAssistant has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon SageMaker geospatial capabilities

Amazon SageMaker geospatial capabilities (service prefix: `sagemaker-geospatial`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics



- [Actions defined by Amazon SageMaker geospatial capabilities](#)
- [Resource types defined by Amazon SageMaker geospatial capabilities](#)
- [Condition keys for Amazon SageMaker geospatial capabilities](#)

## Actions defined by Amazon SageMaker geospatial capabilities

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEarthObservationJob</a>	Grants permission to the DeleteEarthObservationJob operation which deletes an existing earth observation job	Write	<a href="#">EarthObservationJob*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteVectorEnrichmentJob</a>	Grants permission to the DeleteVectorEnrichmentJob operation which deletes an existing vector enrichment job	Write	<a href="#">VectorEnrichmentJob*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ExportEarthObservationJob</a>	Grants permission to copy results of an earth observation job to an S3 location	Write	<a href="#">EarthObservationJob*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ExportVectorEnrichmentJob</a>	Grants permission to copy results of an VectorEnrichmentJob to an S3 location	Write	<a href="#">VectorEnrichmentJob*</a>		iam:PassRole
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEarthObservationJob</a>	Grants permission to return details about the earth observation job	Read	<a href="#">EarthObservationJob*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetRasterDataCollection</a>	Grants permission to return details about the raster data collection	Read	<a href="#">RasterDataCollection*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTile</a>	Grants permission to get the tile of an earth observation job	Read	<a href="#">EarthObservationJob*</a>		iam:PassRole
<a href="#">GetVectorEnrichmentJob</a>	Grants permission to return details about the vector enrichment job	Read	<a href="#">VectorEnrichmentJob*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListEarthObservationJobs</a>	Grants permission to return an array of earth observation jobs associated with the current account	List			
<a href="#">ListRasterDataCollections</a>	Grants permission to return an array of aster data collections associated with the given model name	List			
<a href="#">ListTagsForResource</a>	Grants permission to lists tag for an SageMaker Geospatial resource	List	<a href="#">EarthObservationJob</a>		
			<a href="#">RasterDataCollection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">VectorEnrichmentJob</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListVectorEnrichmentJobs</a>	Grants permission to return an array of vector enrichment jobs associated with the current account	List			
<a href="#">SearchRasterDataCollection</a>	Grants permission to query raster data collections	Read			
<a href="#">StartEarthObservationJob</a>	Grants permission to the StartEarthObservationJob operation which starts a new earth observation job to your account	Write	<a href="#">EarthObservationJob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  sagemaker-geospatial:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartVectorEnrichmentJob</a>	Grants permission to the StartVectorEnrichmentJob operation which starts a new vector enrichment job to your account	Write	<a href="#">VectorEnrichmentJob*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole  sagemaker-geospatial:TagResource
<a href="#">StopEarthObservationJob</a>	Grants permission to the StopEarthObservationJob operation which stops an existing earth observation job	Write	<a href="#">EarthObservationJob*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopVectorEnrichmentJob</a>	Grants permission to the StopVectorEnrichmentJob operation which stops an existing vector enrichment job	Write	<a href="#">VectorEnrichmentJob*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag an SageMaker Geospatial resource	Tagging	<a href="#">EarthObservationJob</a>		
			<a href="#">RasterDataCollection</a>		
			<a href="#">VectorEnrichmentJob</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag an SageMaker Geospatial resource	Tagging	<a href="#">EarthObservationJob</a>		
			<a href="#">RasterDataCollection</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">VectorEnrichmentJob</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon SageMaker geospatial capabilities

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">EarthObservationJob</a>	arn:\${Partition}:sagemaker-geospatial:\${Region}:\${Account}:earth-observation-job/\${JobID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">RasterDataCollection</a>	arn:\${Partition}:sagemaker-geospatial:\${Region}:\${Account}:raster-data-collection/\${CollectionID}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VectorEnrichmentJob</a>	arn:\${Partition}:sagemaker-geospatial:\${Region}:\${Account}:vector-enrichment-job/\${JobID}	<a href="#">aws:ResourceTag/\${TagKey}</a>



## Condition keys for Amazon SageMaker geospatial capabilities

Amazon SageMaker geospatial capabilities defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon SageMaker Unified Studio MCP

Amazon SageMaker Unified Studio MCP (service prefix: `sagemaker-unified-studio-mcp`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon SageMaker Unified Studio MCP](#)

- [Resource types defined by Amazon SageMaker Unified Studio MCP](#)
- [Condition keys for Amazon SageMaker Unified Studio MCP](#)

## Actions defined by Amazon SageMaker Unified Studio MCP

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CallPrivilegedTool</a> [permission only]	Grants permission to call privileged tools in MCP service	Write			
<a href="#">CallReadOnlyTool</a> [permission only]	Grants permission to call read-only tools in MCP service	Read			
<a href="#">InvokeMcp</a> [permission only]	Grants permission to use MCP service	Read			

## Resource types defined by Amazon SageMaker Unified Studio MCP

Amazon SageMaker Unified Studio MCP does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon SageMaker Unified Studio MCP, specify "Resource": "\*" in your policy.

## Condition keys for Amazon SageMaker Unified Studio MCP

SageMaker Unified Studio MCP has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon SageMaker with MLflow

Amazon SageMaker with MLflow (service prefix: `sagemaker-mlflow`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon SageMaker with MLflow](#)
- [Resource types defined by Amazon SageMaker with MLflow](#)
- [Condition keys for Amazon SageMaker with MLflow](#)

## Actions defined by Amazon SageMaker with MLflow

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AccessUI</a>	Grants permission to access the MLflow UI	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateExperiment</a>	Grants permission to create an MLflow experiment	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateModelVersion</a>	Grants permission to create a new model version	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateRegisteredModel</a>	Grants permission to create a registered model	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateRun</a>	Grants permission to create a new run within an experiment	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteExperiment</a>	Grants permission to mark an MLflow experiment for deletion	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLoggedModel</a>	Grants permission to delete a logged model in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteLoggedModelTag</a>	Grants permission to delete a tag for a logged model in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteModelVersion</a>	Grants permission to delete a model version	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteModelVersionTag</a>	Grants permission to delete a model version tag	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteRegisteredModel</a>	Grants permission to delete a registered model	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteRegisteredModelAlias</a>	Grants permission to delete a registered model alias	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteRegisteredModelTag</a>	Grants permission to delete a registered model tag	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRun</a>	Grants permission to mark a run for deletion	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTag</a>	Grants permission to delete a tag on a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTraceTag</a>	Grants permission to delete a trace tag in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTraces</a>	Grants permission to delete traces in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">EndTrace</a>	Grants permission to end a trace in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">FinalizeLoggedModel</a>	Grants permission to set status for a logged model in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDownloadURIForModelVersionArtifacts</a>	Grants permission to get a URI to download model artifacts for a specific model version	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExperiment</a>	Grants permission to get metadata for an MLflow experiment	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetExperimentByName</a>	Grants permission to get metadata for an MLflow experiment by name	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLatestModelVersions</a>	Grants permission to get the latest model versions	List	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLoggedModel</a>	Grants permission to get a logged model in MLflow	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetMetricHistory</a>	Grants permission to get a list of all values for the specified metric for a given run	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetModelVersion</a>	Grants permission to get a model version by model name and version	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetModelVersionByAlias</a>	Grants permission to get model version by alias in MLflow	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetRegisteredModel</a>	Grants permission to get a registered model	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetRun</a>	Grants permission to get metadata, metrics, parameters, and tags for a run	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetTraceInfo</a>	Grants permission to get information about a trace in MLflow	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListArtifacts</a>	Grants permission to list artifacts for a run	List	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListLoggedModelArtifacts</a>	Grants permission to list artifacts for a logged model in MLflow	List	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">LogBatch</a>	Grants permission to log a batch of metrics, parameters, and tags for a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">LogInputs</a>	Grants permission to log inputs for a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">LogLoggedModelParams</a>	Grants permission to log params for a logged model in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">LogMetric</a>	Grants permission to log a metric for a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">LogModel</a>	Grants permission to log the model associated with a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">LogOutputs</a>	Grants permission to log outputs, such as models, for a run in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">LogParam</a>	Grants permission to log a parameter tracked during a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RenameRegisteredModel</a>	Grants permission to rename a registered model	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RestoreExperiment</a>	Grants permission to restore an experiment marked for deletion	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RestoreRun</a>	Grants permission to restore a deleted run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SearchExperiments</a>	Grants permission to search for MLflow experiments	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchLoggedModels</a>	Grants permission to search for logged models in MLflow	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SearchModelVersions</a>	Grants permission to search for a model version	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SearchRegisteredModels</a>	Grants permission to search for registered models in MLflow	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SearchRuns</a>	Grants permission to search for runs that satisfy expressions	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SearchTraces</a>	Grants permission to search for traces in MLflow	Read	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetExperimentTag</a>	Grants permission to set a tag on an experiment	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetLoggedModelTags</a>	Grants permission to set tags for a logged model in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetModelVersionTag</a>	Grants permission to set a tag for the model version	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetRegisteredModelAlias</a>	Grants permission to set a registered model alias	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetRegisteredModelTag</a>	Grants permission to set a tag for a registered model	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetTag</a>	Grants permission to set a tag on a run	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SetTraceTag</a>	Grants permission to set a trace tag in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartTrace</a>	Grants permission to start a trace in MLflow	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TransitionModelVersionStage</a>	Grants permission to transition a model version to a particular stage	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateExperiment</a>	Grants permission to update the metadata for an MLflow experiment	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateModelVersion</a>	Grants permission to update the model version	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateRegisteredModel</a>	Grants permission to update a registered model	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateRun</a>	Grants permission to update run metadata	Write	<a href="#">mlflow-tracking-server*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon SageMaker with MLflow

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">mlflow-tracking-server</a>	arn:\${Partition}:sagemaker:\${Region}:\${Account}:mlflow-tracking-server/\${MlflowTrackingServerName}	

## Condition keys for Amazon SageMaker with MLflow

Amazon SageMaker with MLflow defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair	String

## Actions, resources, and condition keys for AWS Savings Plans

AWS Savings Plans (service prefix: `savingsplans`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:



- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Savings Plans](#)
- [Resource types defined by AWS Savings Plans](#)
- [Condition keys for AWS Savings Plans](#)

## Actions defined by AWS Savings Plans


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSavingsPlan</a>	Grants permission to create a savings plan	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteQueuedSavingsPlan</a>	Grants permission to delete the queued savings plan associated with customers account	Write	<a href="#">savingsplan*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSavingsPlanRates</a>	Grants permission to describe the rates associated with customers savings plan	Read	<a href="#">savingsplan*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeSavingsPlans</a>	Grants permission to describe the savings plans associated with customers account	Read	<a href="#">savingsplan*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeSavingsPlansOfferingRates</a>	Grants permission to describe the rates associated with savings plans offerings	Read			
<a href="#">DescribeSavingsPlansOfferings</a>	Grants permission to describe the savings plans offerings that customer is eligible to purchase	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a savings plan	List	<a href="#">savingsplan*</a>		
<a href="#">ReturnSavingsPlan</a>	Grants permission to return a savings plan	Write	<a href="#">savingsplan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">TagResource</a>	Grants permission to tag a savings plan	Tagging	<a href="#">savingsplan*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a savings plan	Tagging	<a href="#">savingsplan*</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Savings Plans

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">savingsplan</a>	arn:\${Partition}:savingsplans::\${Account}:savingsplan/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Savings Plans

AWS Savings Plans defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Secrets Manager

AWS Secrets Manager (service prefix: `secretsmanager`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Secrets Manager](#)
- [Resource types defined by AWS Secrets Manager](#)
- [Condition keys for AWS Secrets Manager](#)

## Actions defined by AWS Secrets Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetSecretValue</a>	Grants permission to retrieve and decrypt a list of secrets	List			
<a href="#">CancelRotateSecret</a>	Grants permission to cancel an in-progress secret rotation	Write	<a href="#">Secret*</a>	<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">secretsmanager:SecretPrimaryRegion</a>  <a href="#">secretsmanager:resource/Type</a>	
<a href="#">CreateSecret</a>	Grants permission to create a secret that stores encrypted data that can be queried and rotated	Write	<a href="#">Secret*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:Name</a> <a href="#">secretsmanager:Description</a> <a href="#">secretsmanager:KmsKeyArn</a> <a href="#">secretsmanager:KmsKeyId</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">secretsmanager:ResourceTag/tag-key</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:AddReplicaRegions</a>  <a href="#">secretsmanager:ForceOverwriteReplicaSecret</a>  <a href="#">secretsmanager:Type</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete the resource policy attached to a secret	Permissions management	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	
<a href="#">DeleteSecret</a>	Grants permission to delete a secret	Write	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:RecoveryWindowInDays</a> <a href="#">secretsmanager:ForceDeleteWithoutRecovery</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretPrimaryRegion</a>  <a href="#">secretsmanager:resource/Type</a>	
<a href="#">DescribeSecret</a>	Grants permission to retrieve the metadata about a secret, but not the encrypted data	Read	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRandomPassword</a>	Grants permission to generate a random string for use in password creation	Read			
<a href="#">GetResourcePolicy</a>	Grants permission to get the resource policy attached to a secret	Read	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	
<a href="#">GetSecretValue</a>		Read	<a href="#">Secret*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to retrieve and decrypt the encrypted data				

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:VersionId</a> <a href="#">secretsmanager:VersionStage</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:resource/Type</a>	
<a href="#">ListSecretVersionIds</a>	Grants permission to list the available versions of a secret	Read	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	
<a href="#">ListSecrets</a>	Grants permission to list the available secrets	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePolicy</a>	Grants permission to attach a resource policy to a secret	Permissions management	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:BlockPublicPolicy</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:res</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ource/Type</a>	
<a href="#">PutSecretValue</a>	Grants permission to create a new version of the secret with new encrypted data	Write	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	
	Grants permission to remove regions from replication	Write	<a href="#">Secret*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveRegionsFromReplication</a>				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Replicate SecretToRegions</a>	Grants permission to convert an existing secret to a multi-Region secret and begin replicating the secret to a list of new regions	Write	<a href="#">Secret*</a>	<a href="#">secretsmanager:SecretId</a>  <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a>  <a href="#">secretsmanager:ResourceTag/tag-key</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">secretsmanager:SecretPrimaryRegion</a>  <a href="#">secretsmanager:AddReplicaRegions</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:ForceOverwriteReplicaSecret</a>  <a href="#">secretsmanager:resource/Type</a>	
<a href="#">RestoreSecret</a>	Grants permission to cancel deletion of a secret	Write	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	
<a href="#">RotateSecret</a>	Grants permission to start rotation of a secret	Write	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:RotationLambdaARN</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:Mod</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>ifyRotationRules</u></a>  <a href="#"><u>secretsmanager:RotateImmediately</u></a>  <a href="#"><u>secretsmanager:resource/Type</u></a>  <a href="#"><u>secretsmanager:ExternalSecretRotationRoleArn</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopReplicationToReplica</a>	Grants permission to remove the secret from replication and promote the secret to a regional secret in the replica Region	Write	<a href="#">Secret*</a>	<a href="#">secretsmanager:SecretId</a>  <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a>  <a href="#">secretsmanager:ResourceTag/tag-key</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">secretsmanager:SecretPrimaryRegion</a>  <a href="#">secretsmanager:resource/Type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add tags to a secret	Tagging	<a href="#">Secret*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:resource/Type</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a secret	Tagging	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">aws:TagKeys</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSecret</a>	Grants permission to update a secret with new metadata or with a new version of the encrypted data	Write	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:Description</a> <a href="#">secretsmanager:KmsKeyArn</a> <a href="#">secretsmanager:KmsKeyId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:Type</a> <a href="#">secretsmanager:resource/Type</a>	
<a href="#">UpdateSecretVersionStage</a>	Grants permission to move a stage from one secret to another	Write	<a href="#">Secret*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:VersionStage</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:res</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ource/Type</a>	
<a href="#">ValidateResourcePolicy</a>	Grants permission to validate a resource policy before attaching policy	Permissions management	<a href="#">Secret*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">secretsmanager:SecretId</a> <a href="#">secretsmanager:resource/AllowRotationLambdaAction</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">secretsmanager:SecretPrimaryRegion</a> <a href="#">secretsmanager:resource/Type</a>	

## Resource types defined by AWS Secrets Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Secret</a>	arn:\${Partition}:secretsmanager:\${Region}:\${Account}:secret:\${SecretId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">secretsmanager:ResourceTag/tag-key</a> <a href="#">secretsmanager:resource/AllowRotationLambdaArn</a> <a href="#">secretsmanager:resource/Type</a>

## Condition keys for AWS Secrets Manager

AWS Secrets Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a key that is present in the request the user makes to the Secrets Manager service	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the list of all the tag key names present in the request the user makes to the Secrets Manager service	ArrayOfString
<a href="#">secretsmanager:AddReplicaRegions</a>	Filters access by the list of Regions in which to replicate the secret	ArrayOfString
<a href="#">secretsmanager:BlockPublicPolicy</a>	Filters access by whether the resource policy blocks broad AWS account access	Bool
<a href="#">secretsmanager:Description</a>	Filters access by the description text in the request	String
<a href="#">secretsmanager:ExternalSecretRotationRoleArn</a>	Filters access by the managed external secret rotation role ARN in the request	ARN
<a href="#">secretsmanager:ForceDeleteWithoutRecovery</a>	Filters access by whether the secret is to be deleted immediately without any recovery window	Bool
<a href="#">secretsmanager:For</a>	Filters access by whether to overwrite a secret with the same name in the destination Region	Bool

Condition keys	Description	Type
<a href="#">ceOverwriteReplicaSecret</a>		
<a href="#">secretsmanager:KmsKeyArn</a>	Filters access by the key ARN of the KMS key in the request	ARN
<a href="#">secretsmanager:KmsKeyId</a>	Filters access by the key identifier of the KMS key in the request. Deprecated: Use secretsmanager:KmsKeyArn	String
<a href="#">secretsmanager:ModifyRotationRules</a>	Filters access by whether the rotation rules of the secret are to be modified	Bool
<a href="#">secretsmanager:Name</a>	Filters access by the friendly name of the secret in the request	String
<a href="#">secretsmanager:RecoveryWindowInDays</a>	Filters access by the number of days that Secrets Manager waits before it can delete the secret	Numeric
<a href="#">secretsmanager:ResourceTag/tag-key</a>	Filters access by a tag key and value pair	String
<a href="#">secretsmanager:RotateImmediately</a>	Filters access by whether the secret is to be rotated immediately	Bool
<a href="#">secretsmanager:RotationLambdaARN</a>	Filters access by the ARN of the rotation Lambda function in the request	ARN

Condition keys	Description	Type
<a href="#">secretsmanager:SecretId</a>	Filters access by the SecretID value in the request	ARN
<a href="#">secretsmanager:SecretPrimaryRegion</a>	Filters access by primary region in which the secret is created if the secret is a multi-Region secret	String
<a href="#">secretsmanager:Type</a>	Filters access by the managed external secret type in the request	String
<a href="#">secretsmanager:VersionId</a>	Filters access by the unique identifier of the version of the secret in the request	String
<a href="#">secretsmanager:VersionStage</a>	Filters access by the list of version stages in the request	String
<a href="#">secretsmanager:resource/AllowRotationLambdaArn</a>	Filters access by the ARN of the rotation Lambda function associated with the secret	ARN
<a href="#">secretsmanager:resource/Type</a>	Filters access by the managed external secret type associated with the secret	String

## Actions, resources, and condition keys for AWS Security Agent

AWS Security Agent (service prefix: `securityagent`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Security Agent](#)
- [Resource types defined by AWS Security Agent](#)
- [Condition keys for AWS Security Agent](#)

## Actions defined by AWS Security Agent

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddArtifact</a>	Grants permission to add an Artifact for the given Agent Space	Write	<a href="#">AgentSpace*</a>		
<a href="#">BatchDeletePenTests</a>	Grants permission to delete multiple penetration tests in a single request	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetAgentSpaces</a>	Grants permission to retrieve multiple agent spaces in a single request	Read	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetArtifactMetadata</a>	Grants permission to retrieve one or more Artifact Metadata records for the given Agent Space	Read	<a href="#">AgentSpace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetFindings</a>	Grants permission to retrieve multiple security testing findings in a single request	Read	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetPentestJobContentMetadata</a>	Grants permission to retrieve multiple pentest job contents metadata in a single request	Read	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetPentestJobTasks</a>	Grants permission to retrieve multiple pentest job tasks in a single request	Read	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetPentestJobs</a>	Grants permission to retrieve multiple security testing jobs in a single request	Read	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetPenetrationTests</a>	Grants permission to retrieve multiple penetration tests in a single request	Read	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">BatchGetTargetDomains</a>	Grants permission to retrieve multiple target domains in a single request	Read	<a href="#">TargetDomain*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAgentSpace</a>	Grants permission to create an agent space record	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	kms:Decrypt  kms:DescribeKey  kms:GenerateDataKeyWithoutPlaintext
<a href="#">CreateApplication</a>	Grants permission to create a new application	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:PassRole  kms:DescribeKey  sso:CreateApplication
<a href="#">CreateDesignReview</a>	Grants permission to create a design review	Write	<a href="#">AgentSpace*</a>		
<a href="#">CreateIntegration</a>	Grants permission to create a security testing integration	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMembership</a>	Grants permission to add a single member to a agent space with specified role	Write	<a href="#">AgentSpace*</a>		
<a href="#">CreateOneTimeLoginSession</a>	Grants permission to create a one time login session	Write	<a href="#">AgentSpace*</a>		
<a href="#">CreatePenTest</a>	Grants permission to create a new penetration test configuration	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">CreateSecurityRequirement</a>	Grants permission to add a customer managed Security Requirement	Write	<a href="#">SecurityRequirementPack*</a>		
<a href="#">CreateTargetDomain</a>	Grants permission to create a target domain record	Write			
<a href="#">DeleteAgentSpace</a>	Grants permission to delete an agent space record	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">DeleteApplication</a>	Grants permission to delete application	Write	<a href="#">Application*</a>		
<a href="#">DeleteArtifact</a>	Grants permission to delete an Artifact	Write	<a href="#">AgentSpace*</a>		
<a href="#">DeleteDesignReview</a>	Grants permission to delete a design review	Write	<a href="#">AgentSpace*</a>		
<a href="#">DeleteIntegration</a>	Grants permission to delete the integration of an application	Write	<a href="#">Integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMembership</a>	Grants permission to remove a single member associated to an agent space	Write	<a href="#">AgentSpace*</a>		
<a href="#">DeleteSecurityRequirement</a>	Grants permission to delete a customer managed Security Requirement	Write	<a href="#">SecurityRequirementPack*</a>		
<a href="#">DeleteTargetDomain</a>	Grants permission to delete a target domain record	Write	<a href="#">TargetDomain*</a>		
<a href="#">GetApplication</a>	Grants permission to get application details by application ID	Read	<a href="#">Application*</a>		
<a href="#">GetArtifact</a>	Grants permission to retrieve an Artifact for the given Agent Space	Read	<a href="#">AgentSpace*</a>		
<a href="#">GetDesignReview</a>	Grants permission to get the status of the associated agent space design review	Read	<a href="#">AgentSpace*</a>		
<a href="#">GetDesignReviewArtifact</a>	Grants permission to get design review artifact for a specific document	Read	<a href="#">AgentSpace*</a>		
<a href="#">GetDesignReviewFeedback</a>	Grants permission to get feedback for a design review comment	Read	<a href="#">AgentSpace*</a>		
<a href="#">GetIntegration</a>	Grants permission to get the integration metadata by ID	Read	<a href="#">Integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSecurityRequirement</a>	Grants permission to retrieve a Security Requirement	Read	<a href="#">SecurityRequirementPack*</a>		
<a href="#">InitiateProviderRegistration</a>	Grants permission to initiate the registration of Security Agent App for the given provider (eg: GitHub)	Write			
<a href="#">ListAgentSpaces</a>	Grants permission to list agent spaces	List			
<a href="#">ListApplications</a>	Grants permission to list all applications in the account	List			
<a href="#">ListArtifacts</a>	Grants permission to list all artifacts for the given agent space	List	<a href="#">AgentSpace*</a>		
<a href="#">ListDesignReviewComments</a>	Grants permission to list design review comments	List	<a href="#">AgentSpace*</a>		
<a href="#">ListDesignReviews</a>	Grants permission to list all design reviews for the given agent space	List	<a href="#">AgentSpace*</a>		
<a href="#">ListDiscoveredEndpoints</a>	Grants permission to list discovered endpoints associated with a pentest job with optional URI prefix filtering	List	<a href="#">AgentSpace*</a>		kms:Decrypt

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFindings</a>	Grants permission to list findings with filtering and pagination support	List	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">ListIntegratedResources</a>	Grants permission to list integrated resources for an agent space	List	<a href="#">AgentSpace*</a>		
<a href="#">ListIntegrations</a>	Grants permission to get the integrations owned by the caller's AWS account	List			
<a href="#">ListMemberships</a>	Grants permission to list all members associated to an agent space with pagination support	List	<a href="#">AgentSpace*</a>		
<a href="#">ListPentestJobTasks</a>	Grants permission to list pentest job tasks associated with a pentest job	List	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">ListPentestJobsForPentest</a>	Grants permission to list penetration test jobs associated with a penetration test	List	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">ListPentests</a>	Grants permission to list penetration tests with optional filtering by status	List	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">ListResourcesFromIntegration</a>	Grants permission to list resources from Integration	List	<a href="#">Integration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSecurityRequirements</a>	Grants permission to list all Security Requirements	List	<a href="#">SecurityRequirementPack*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read	<a href="#">AgentSpace</a> <a href="#">Application</a> <a href="#">Integration</a> <a href="#">SecurityRequirementPack</a> <a href="#">TargetDomain</a>		
<a href="#">ListTargetDomains</a>	Grants permission to list target domains	List			
<a href="#">PutDesignReviewFeedback</a>	Grants permission to submit feedback for a design review comment	Write	<a href="#">AgentSpace*</a>		
<a href="#">StartCodeRemediation</a>	Grants permission to start code remediation for the findings	Write	<a href="#">AgentSpace*</a>		kms:Decrypt  kms:GenerateDataKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartPenetrationJob</a>	Grants permission to initiate the execution of a penetration test	Write	<a href="#">AgentSpace*</a>		kms:Decrypt  kms:GenerateDataKey
<a href="#">StopPenetrationJob</a>	Grants permission to stop the execution of a running penetration test	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">AgentSpace</a>		
			<a href="#">Application</a>		
			<a href="#">Integration</a>		
			<a href="#">SecurityRequirementPack</a>		
			<a href="#">TargetDomain</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ToggleManagedSecurityRequirement</a>	Grants permission to toggle the status of a managed Security Requirement	Write	<a href="#">SecurityRequirementPack*</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">AgentSpace</a>		
			<a href="#">Application</a>		
			<a href="#">Integration</a>		
			<a href="#">SecurityRequirementPack</a>		
			<a href="#">TargetDomain</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAgentSpace</a>	Grants permission to update an agent space record	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">UpdateApplication</a>	Grants permission to update application configuration	Write	<a href="#">Application*</a>		iam:PassRole kms:DescribeKey



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFinding</a>	Grants permission to update an existing security finding with new details or status	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">UpdateIntegratedResources</a>	Grants permission to update integrated resources for an agent space	Write	<a href="#">AgentSpace*</a>		
<a href="#">UpdatePenetrationTest</a>	Grants permission to update an existing penetration test with new configuration or settings	Write	<a href="#">AgentSpace*</a>		kms:Decrypt
<a href="#">UpdateSecurityRequirement</a>	Grants permission to update a customer managed Security Requirement	Write	<a href="#">SecurityRequirementPack*</a>		
<a href="#">UpdateTargetDomain</a>	Grants permission to update a target domain record	Write	<a href="#">TargetDomain*</a>		
<a href="#">VerifyTargetDomain</a>	Grants permission to verify ownership for a registered target domain	Write	<a href="#">TargetDomain*</a>		

## Resource types defined by AWS Security Agent

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Application</a>	arn:\${Partition}:securityagent:\${Region}:\${Account}:application/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">SecurityRequirementPack</a>	arn:\${Partition}:securityagent:\${Region}:\${Account}:security-requirement-pack/\${SecurityRequirementPackId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Integration</a>	arn:\${Partition}:securityagent:\${Region}:\${Account}:integration/\${IntegrationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">AgentSpace</a>	arn:\${Partition}:securityagent:\${Region}:\${Account}:agent-space/\${AgentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">TargetDomain</a>	arn:\${Partition}:securityagent:\${Region}:\${Account}:target-domain/\${TargetDomainId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Security Agent

AWS Security Agent defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Security Hub

AWS Security Hub (service prefix: `securityhub`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Security Hub](#)
- [Resource types defined by AWS Security Hub](#)
- [Condition keys for AWS Security Hub](#)

## Actions defined by AWS Security Hub

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAdministrateInvitation</a>	Grants permission to accept Security Hub invitations to become a member account	Write	<a href="#">hub</a>		
<a href="#">AcceptInvitation</a>	Grants permission to accept Security Hub invitations to become a member account	Write	<a href="#">hub</a>		
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to log delivery for resources	Permissions management	<a href="#">hub</a> <a href="#">hubv2</a>		
<a href="#">BatchDeleteAutomationRules</a>	Grants permission to delete one or more automation rules in Security Hub	Write	<a href="#">automation-rule*</a>		
<a href="#">BatchDisableStandards</a>	Grants permission to disable standards in Security Hub	Write	<a href="#">hub</a>		
<a href="#">BatchEnableStandards</a>	Grants permission to enable standards in Security Hub	Write	<a href="#">hub</a>		
<a href="#">BatchGetAutomationRules</a>	Grants permission to retrieve a list of details for automation rules from Security Hub based on rule Amazon Resource Names (ARNs)	Read	<a href="#">automation-rule*</a>		
<a href="#">BatchGetConfiguration</a>	Grants permission to retrieve information about configura	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ionPolicyAssociations</a>	tion policies associated with a specific list of member accounts and organizational units of the calling account's organization				
<a href="#">BatchGetControlEvaluations</a> [permission only]	Grants permission to get the enablement and compliance status of controls, the findings count for controls, and the overall security score for controls on the Security Hub console	Read	<a href="#">hub</a>		
<a href="#">BatchGetSecurityControls</a>	Grants permission to get details about specific security controls identified by ID or ARN	Read			securityhub:DescribeStandardsControls
<a href="#">BatchGetStandardsControlAssociations</a>	Grants permission to get the enablement status of a batch of security controls in standards	Read			securityhub:DescribeStandardsControls
<a href="#">BatchImportFindings</a>	Grants permission to import findings into Security Hub from an integrated product	Write	<a href="#">product*</a>	<a href="#">securityhub:TargetAccount</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchUpdateAutomationRules</a>	Grants permission to update one or more automation rules from Security Hub based on rule Amazon Resource Names (ARNs) and input parameters	Write	<a href="#">automation-rule*</a>		
<a href="#">BatchUpdateFindings</a>	Grants permission to update customer-controlled fields for a selected set of Security Hub findings	Write	<a href="#">hub</a> <a href="#">hubv2</a>	<a href="#">securityhub:ASFFSynTaxPath/\${ASFFSynTaxPath}</a> <a href="#">securityhub:OCSFSynTaxPath/\${OCSFSynTaxPath}</a>	
<a href="#">BatchUpdateStandardsControlAssociations</a>	Grants permission to update the enablement status of a batch of security controls in standards	Write			securityhub:UpdateStandardsControl
<a href="#">ConnectorRegistrationsV2</a>	Grants permission to complete the OAuth 2.0 authorization code flow based on input parameters	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateActionTarget</a>	Grants permission to create custom actions in Security Hub	Write	<a href="#">hub</a>		
<a href="#">CreateAggregatorV2</a>	Grants permission to create an aggregatorV2, which configures data aggregation across Regions	Write			
<a href="#">CreateAutomationRule</a>	Grants permission to create an automation rule based on input parameters	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAutomationRuleV2</a>	Grants permission to create an automation rule V2 based on input parameters	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConfigurationPolicy</a>	Grants permission to create a configuration policy to manage organization member settings in Security Hub	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnectorV2</a>	Grants permission to create a connector V2 based on input parameters	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateFindingAggregator</a>	Grants permission to create a finding aggregator, which contains the cross-Region finding aggregation configuration	Write			
<a href="#">CreateInsight</a>	Grants permission to create insights in Security Hub. Insights are collections of related findings	Write	<a href="#">hub</a>		
<a href="#">CreateMembers</a>	Grants permission to create member accounts in Security Hub	Write	<a href="#">hub</a>		
<a href="#">CreateTicketV2</a>	Grants permission to create ticket for a selected OCSF finding	Write	<a href="#">connectorv2</a>		
<a href="#">DeclineInvitations</a>	Grants permission to decline Security Hub invitations to become a member account	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteActionTarget</a>	Grants permission to delete custom actions in Security Hub	Write	<a href="#">hub</a>		
<a href="#">DeleteAggregatorV2</a>	Grants permission to delete an aggregatorV2, which configures data aggregation across Regions	Write	<a href="#">aggregatorV2*</a>		
<a href="#">DeleteAutomationRuleV2</a>	Grants permission to delete an automation rule V2 in Security Hub	Write	<a href="#">automation-ruleV2*</a>		
<a href="#">DeleteConfigurationPolicy</a>	Grants permission to delete an existing configuration policy	Write	<a href="#">configuration-policy*</a>		
<a href="#">DeleteConnectorV2</a>	Grants permission to delete a connector V2 in Security Hub	Write	<a href="#">connectorV2*</a>		
<a href="#">DeleteFindingAggregator</a>	Grants permission to delete a finding aggregator, which disables finding aggregation across Regions	Write	<a href="#">finding-aggregator*</a>		
<a href="#">DeleteInsight</a>	Grants permission to delete insights from Security Hub	Write	<a href="#">hub</a>		
<a href="#">DeleteInvitations</a>	Grants permission to delete Security Hub invitations to become a member account	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteMembers</a>	Grants permission to delete Security Hub member accounts	Write	<a href="#">hub</a>		
<a href="#">DescribeActionTargets</a>	Grants permission to retrieve a list of custom actions using the API	Read	<a href="#">hub</a>		
<a href="#">DescribeHub</a>	Grants permission to retrieve information about the hub resource in your account	Read	<a href="#">hub</a>		
<a href="#">DescribeOrganizationConfiguration</a>	Grants permission to describe the organization configuration for Security Hub	Read	<a href="#">hub</a>		
<a href="#">DescribeProducts</a>	Grants permission to retrieve information about the available Security Hub product integrations	Read	<a href="#">hub</a>		
<a href="#">DescribeProductsV2</a>	Grants permission to retrieve information about the available Security Hub V2 product integrations	Read	<a href="#">hubv2</a>		
<a href="#">DescribeSecurityHubV2</a>	Grants permission to retrieve information about the hub V2 resource in your account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeStandards</a>	Grants permission to retrieve information about Security Hub standards	Read	<a href="#">hub</a>		
<a href="#">DescribeStandardsControls</a>	Grants permission to retrieve information about Security Hub standards controls	Read	<a href="#">hub</a>		
<a href="#">DisableImportFindingsForProduct</a>	Grants permission to disable the findings importing for a Security Hub integrated product	Write	<a href="#">hub</a>		
<a href="#">DisableOrganizationAdminAccount</a>	Grants permission to remove the Security Hub administrator account for your organization	Write	<a href="#">hub</a>		organizations:DeregisterDelegatedAdministrator  organizations:DescribeOrganization  organizations:ListDelegatedAdministrators
<a href="#">DisableSecurityHub</a>	Grants permission to disable Security Hub	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisableSecurityHubV2</a>	Grants permission to disable Security Hub V2	Write			
<a href="#">DisassociateFromAdministratorAccount</a>	Grants permission to a Security Hub member account to disassociate from the associated administrator account	Write	<a href="#">hub</a>		
<a href="#">DisassociateFromMasterAccount</a>	Grants permission to a Security Hub member account to disassociate from the associated master account	Write	<a href="#">hub</a>		
<a href="#">DisassociateMembers</a>	Grants permission to disassociate Security Hub member accounts from the associated administrator account	Write	<a href="#">hub</a>		
<a href="#">EnableImportFindingsForProduct</a>	Grants permission to enable the findings importing for a Security Hub integrated product	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableOrganizationAdminAccount</a>	Grants permission to designate a Security Hub administrator account for your organization	Write	<a href="#">hub</a>		organizations:DescribeOrganization  organizations:EnableAWSServiceAccess  organizations:ListAWSServiceAccessForOrganization  organizations:ListDelegatedAdministrators  organizations:RegisterDelegatedAdministrator
<a href="#">EnableSecurityHub</a>	Grants permission to enable Security Hub	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">EnableSecurityHubV2</a>	Grants permission to enable Security Hub V2	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">GetAdhocsInsightResults</a> [permission only]	Grants permission to retrieve aggregated statistical data about the findings	Read	<a href="#">hub</a> <a href="#">hubv2</a>		
<a href="#">GetAdministratorAccount</a>	Grants permission to retrieve details about the Security Hub administrator account	Read	<a href="#">hub</a>		
<a href="#">GetAggregatorV2</a>	Grants permission to retrieve details for an aggregatorV2, which configures data aggregation across Regions	Read	<a href="#">aggregatorv2*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAutomationRuleV2</a>	Grants permission to retrieve details for an automation rule V2 from Security Hub based on rule Amazon Resource Name (ARN)	Read	<a href="#">automation-rulev2*</a>		
<a href="#">GetConfigurationPolicy</a>	Grants permission to get a complete overview of one configuration policy created by the calling account	Read	<a href="#">configuration-policy*</a>		
<a href="#">GetConfigurationPolicyAssociation</a>	Grants permission to retrieve information about a configuration policy associated with a member account or organizational unit of the calling account's organization	Read			
<a href="#">GetConnectorV2</a>	Grants permission to retrieve details for a connector V2 from Security Hub based on connector id	Read	<a href="#">connector-v2*</a>		
<a href="#">GetControlFindingSummary</a> [permission only]	Grants permission to retrieve a security score and counts of finding and control statuses for a security standard	Read	<a href="#">hub</a>		
<a href="#">GetEnabledStandards</a>	Grants permission to retrieve a list of the standards that are enabled in Security Hub	List	<a href="#">hub</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFindingAggregator</a>	Grants permission to retrieve details for a finding aggregator, which configures finding aggregation across Regions	Read	<a href="#">finding-aggregator*</a>		
<a href="#">GetFindingHistory</a>	Grants permission to retrieve a list of finding history from Security Hub	Read	<a href="#">hub</a>		
<a href="#">GetFindings</a>	Grants permission to retrieve a list of findings from Security Hub	Read	<a href="#">hub</a> <a href="#">hubv2</a>		
<a href="#">GetFindingsTrendsV2</a>	Grants permission to retrieve findings trends	Read	<a href="#">hubv2</a>		
<a href="#">GetFreeTrialEndDate</a> [permission only]	Grants permission to retrieve the end date for an account's free trial of Security Hub	Read	<a href="#">hub</a>		
<a href="#">GetFreeTrialUsage</a> [permission only]	Grants permission to retrieve information about Security Hub usage during the free trial period	Read	<a href="#">hub</a>		
<a href="#">GetInsightFindingTrend</a> [permission only]	Grants permission to retrieve an insight finding trend from Security Hub in order to generate a graph	Read	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInsightResults</a>	Grants permission to retrieve insight results from Security Hub	Read	<a href="#">hub</a>		
<a href="#">GetInsights</a>	Grants permission to retrieve Security Hub insights	List	<a href="#">hub</a>		
<a href="#">GetInvitationsCount</a>	Grants permission to retrieve the count of Security Hub membership invitations sent to the account	Read	<a href="#">hub</a>		
<a href="#">GetMasterAccount</a>	Grants permission to retrieve details about the Security Hub master account	Read	<a href="#">hub</a>		
<a href="#">GetMembers</a>	Grants permission to retrieve the details of Security Hub member accounts	Read	<a href="#">hub</a>		
<a href="#">GetResourcesStatisticsV2</a>	Grants permission to retrieve aggregate statistics about resources	Read	<a href="#">hubv2</a>		
<a href="#">GetResourcesTrendsV2</a>	Grants permission to retrieve resources trends	Read	<a href="#">hubv2</a>		
<a href="#">GetResourcesV2</a>	Grants permission to retrieve a list of resources	Read	<a href="#">hubv2</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSecurityControlDefinition</a>	Grants permission to get the definition details of a specific security control identified by ID	Read			securityhub:DescribeStandardsControls
<a href="#">GetUsage</a> [permission only]	Grants permission to retrieve information about Security Hub usage by accounts	Read	<a href="#">hub</a>		
<a href="#">InviteMembers</a>	Grants permission to invite other AWS accounts to become Security Hub member accounts	Write	<a href="#">hub</a>		
<a href="#">ListAggregatorsV2</a>	Grants permission to retrieve a list of aggregatorsV2, which configures data aggregation across Regions	List			
<a href="#">ListAutomationRules</a>	Grants permission to retrieve a list of automation rules and their metadata for the calling account from Security Hub	List			
<a href="#">ListAutomationRulesV2</a>	Grants permission to retrieve a list of automation rules V2 and their metadata for the calling account from Security Hub	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConfigurationPolicies</a>	Grants permission to list the summaries of all configuration policies created by the calling account	List			
<a href="#">ListConfigurationPolicyAssociations</a>	Grants permission to retrieve information about all configuration policies associated with all member accounts and organizational units of the calling account's organization	List			
<a href="#">ListConnectorsV2</a>	Grants permission to retrieve a list of connectors V2 and their metadata for the calling account from Security Hub	List			
<a href="#">ListControlEvaluationSummaries</a> [permission only]	Grants permission to retrieve a list of controls for a standard, including the control IDs, statuses and finding counts	Read	<a href="#">hub</a>		
<a href="#">ListEnabledProductsForImport</a>	Grants permission to retrieve the Security Hub integrated products that are currently enabled	List	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListFindingAggregators</a>	Grants permission to retrieve a list of finding aggregators, which contain the cross-Region finding aggregation configuration	List			
<a href="#">ListInvitations</a>	Grants permission to retrieve the Security Hub invitations sent to the account	List	<a href="#">hub</a>		
<a href="#">ListMembers</a>	Grants permission to retrieve details about Security Hub member accounts associated with the administrator account	List	<a href="#">hub</a>		
<a href="#">ListOrganizationAdminAccounts</a>	Grants permission to list the Security Hub administrator accounts for your organization	List	<a href="#">hub</a>		organizations:DescribeOrganization  organizations:ListDelegatedAdministrators
<a href="#">ListSecurityControlDefinitions</a>	Grants permission to retrieve a list of security control definitions, which contain details for security controls in the current region	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStandardsControlAssociations</a>	Grants permission to list the enablement status of a security control in standards	List			securityhub:DescribeStandardsControls
<a href="#">ListTagsForResource</a>	Grants permission to list of tags associated with a resource	Read	<a href="#">automation-rule</a>		
			<a href="#">configuration-policy</a>		
			<a href="#">hub</a>		
<a href="#">SendFindingsEvents</a> [permission only]	Grants permission to use a custom action to send Security Hub findings to Amazon EventBridge	Read	<a href="#">hub</a>		
<a href="#">SendInsightEvents</a> [permission only]	Grants permission to use a custom action to send Security Hub insights to Amazon EventBridge	Read	<a href="#">hub</a>		
<a href="#">StartConfigurationPolicyAssociation</a>	Grants permission to associate a configuration policy with a member account or organizational unit in the calling account's organization	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartConfigurationPolicyDisassociation</a>	Grants permission to remove a configuration policy association from a member account or organizational unit in the calling account's organization	Write	<a href="#">hub</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a Security Hub resource	Tagging	<a href="#">aggregatordv2</a>		
			<a href="#">automation-rule</a>		
			<a href="#">automation-rulev2</a>		
			<a href="#">configuration-policy</a>		
			<a href="#">connectorv2</a>		
			<a href="#">hub</a>		
			<a href="#">hubv2</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a Security Hub resource	Tagging	<a href="#">aggregatordv2</a>		
			<a href="#">automation-rule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">automation-rulev2</a>		
			<a href="#">configuration-policy</a>		
			<a href="#">connectorv2</a>		
			<a href="#">hub</a>		
			<a href="#">hubv2</a>		
<a href="#">UpdateActionTarget</a>	Grants permission to update custom actions in Security Hub	Write	<a href="#">hub</a>		
<a href="#">UpdateAggregatorV2</a>	Grants permission to update an aggregatorV2, which configures data aggregation across Regions	Write	<a href="#">aggregatorv2*</a>		
<a href="#">UpdateAutomationRuleV2</a>	Grants permission to update an automation rule V2 in Security Hub based on rule Amazon Resource Name (ARN) and input parameters	Write	<a href="#">automation-rulev2*</a>		
<a href="#">UpdateConfigurationPolicy</a>	Grants permission to update an existing configuration policy	Write	<a href="#">configuration-policy*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateConnectorV2</a>	Grants permission to update a connector V2 in Security Hub based on connector id and input parameters	Write	<a href="#">connector v2*</a>		
<a href="#">UpdateFindingAggregator</a>	Grants permission to update a finding aggregator, which contains the cross-Region finding aggregation configuration	Write	<a href="#">finding-aggregator*</a>		
<a href="#">UpdateFindings</a>	Grants permission to update Security Hub findings	Write	<a href="#">hub</a>		
<a href="#">UpdateInsight</a>	Grants permission to update insights in Security Hub	Write	<a href="#">hub</a>		
<a href="#">UpdateOrganizationConfiguration</a>	Grants permission to update the organization configuration for Security Hub	Write	<a href="#">hub</a>		
<a href="#">UpdateSecurityControl</a>	Grants permission to update properties of a specific security control identified by ID or ARN	Write			securityhub:UpdateStandardsControl
<a href="#">UpdateSecurityHubConfiguration</a>	Grants permission to update Security Hub configuration	Write	<a href="#">hub</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateStandardsControl</a>	Grants permission to update Security Hub standards controls	Write	<a href="#">hub</a>		

## Resource types defined by AWS Security Hub

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">hub</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:hub/default	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">hubv2</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:hubv2/\${HubV2Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">product</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:product/\${Company}/\${ProductId}	
<a href="#">finding-aggregator</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:finding-aggregator/\${FindingAggregatorId}	
<a href="#">aggregatorv2</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:aggregatorv2/\${AggregatorV2Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">automation-rule</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:automation-rule/\${AutomationRuleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">automation-rulev2</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:automation-rulev2/\${AutomationRuleV2Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">configuration-policy</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:configuration-policy/\${ConfigurationPolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connectorv2</a>	arn:\${Partition}:securityhub:\${Region}:\${Account}:connectorv2/\${ConnectorV2Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Security Hub

AWS Security Hub defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by actions based on tag key-value pairs attached to the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by actions based on the presence of tag keys in the request	ArrayOfString
<a href="#">securityub:ASFFSynTaxPath/\${ASFFSynTaxPath}</a>	Filters access by the specified fields and values in the request	String
<a href="#">securityub:OCSFSynTaxPath/\${OCSFSynTaxPath}</a>	Filters access by the specified fields and values in the request	String
<a href="#">securityub:TargetAccount</a>	Filters access by the AwsAccountId field that is specified in the request	String

## Actions, resources, and condition keys for AWS Security Incident Response

AWS Security Incident Response (service prefix: `security-ir`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Security Incident Response](#)
- [Resource types defined by AWS Security Incident Response](#)

- [Condition keys for AWS Security Incident Response](#)

## Actions defined by AWS Security Incident Response

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetMemberAccountDetails</a>	Grants permission to get member account details in batch	Read	<a href="#">memberships*</a>		
<a href="#">CancelMembership</a>	Grants permission to cancel a membership	Write	<a href="#">memberships*</a>		
<a href="#">CloseCase</a>	Grants permission to close a case	Write	<a href="#">case*</a>		
<a href="#">CreateCase</a>	Grants permission to create a case	Write	<a href="#">case*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCaseComment</a>	Grants permission to create a case comment	Write	<a href="#">case*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMembership</a>	Grants permission to create a membership	Write	<a href="#">membership*</a>		iam:CreateServiceLinkedRole  organizations:DescribeOrganization  organizations:ListAWSServiceAccessForOrganization  organizations:ListDelegatedAdministrators
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">GetCase</a>	Grants permission to get a case	Read	<a href="#">case*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCaseAttachmentDownloadUrl</a>	Grants permission to get a case attachment download URL	Read	<a href="#">case*</a>		
<a href="#">GetCaseAttachmentUploadUrl</a>	Grants permission to get a case attachment upload URL	Write	<a href="#">case*</a>		
<a href="#">GetMembership</a>	Grants permission to get a membership	Read	<a href="#">membership*</a>		
<a href="#">ListCaseEdits</a>	Grants permission to list case edits	Read	<a href="#">case*</a>		
<a href="#">ListCases</a>	Grants permission to list cases	List			
<a href="#">ListComments</a>	Grants permission to list case comments	Read	<a href="#">case*</a>		
<a href="#">ListInvestigations</a>	Grants permission to list investigations for a case	Read	<a href="#">case*</a>		
<a href="#">ListMemberships</a>	Grants permission to list memberships	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags attached to the specified resource	Read	<a href="#">case</a>		
			<a href="#">membership</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">SendFeedback</a>	Grants permission to send feedback for investigation results	Write	<a href="#">case*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the specified resource	Tagging	<a href="#">case</a> <a href="#">membership</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified resource	Tagging	<a href="#">case</a> <a href="#">membership</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCase</a>	Grants permission to update a case	Write	<a href="#">case*</a>		
<a href="#">UpdateCaseComment</a>	Grants permission to update a case comment	Write	<a href="#">case*</a>		
<a href="#">UpdateCaseStatus</a>	Grants permission to update a case status	Write	<a href="#">case*</a>		
<a href="#">UpdateMembership</a>	Grants permission to update memberships	Write	<a href="#">membership*</a>		iam:CreateServiceLinkedRole  organizations:DescribeOrganizationalUnit
<a href="#">UpdateResolverType</a>	Grants permission to update case resolver type	Write	<a href="#">case*</a>		

## Resource types defined by AWS Security Incident Response

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">case</a>	arn:\${Partition}:security-ir:\${Region}:\${Account}:case/\${CaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">membership</a>	arn:\${Partition}:security-ir:\${Region}:\${Account}:membership/\${MembershipId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Security Incident Response

AWS Security Incident Response defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Security Lake

Amazon Security Lake (service prefix: `securitylake`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Security Lake](#)
- [Resource types defined by Amazon Security Lake](#)
- [Condition keys for Amazon Security Lake](#)

## Actions defined by Amazon Security Lake

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAwsLogSource</a>	Grants permission to enable any source type in any region for accounts that are either	Write	<a href="#">data-lake</a> *		glue:CreateDatabase

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	part of a trusted organization or standalone account				glue:CreateTable  glue:GetDatabase  glue:GetTable  iam:CreateServiceLinkedRole  kms:CreateGrant  kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCustomLogSource</a>	Grants permission to add a custom source	Write	<a href="#">data-lake*</a>		glue:CreateCrawler glue:CreateDatabase glue:CreateTable glue:StartCrawlerSchedule iam:DeleteRolePolicy iam:GetRole iam:PassRole iam:PutRolePolicy kms:CreateGrant kms:DescribeKey

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					kms:GenerateDataKey lakeformation:GrantPermissions lakeformation:RegisterResource s3:ListBucket s3:PutObject



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataLake</a>	Grants permission to create a new security data lake	Write	<a href="#">data-lake</a> *		events:PutRule  events:PutTargets  iam:CreateServiceLinkedRole  iam:DeleteRolePolicy  iam:GetRole  iam:ListAttachedRolePolicies  iam:PassRole  iam:PutRolePolicy  kms:CreateGrant  kms:DescribeKey  lakeformation:GetD

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ataLakeSettings
					lakeformation:PutDataLakeSettings
					lambda:AddPermission
					lambda:CreateEventSourceMapping
					lambda:CreateFunction
					organizations:DescribeOrganization
					organizations:ListAccounts
					organizations:ListDelegatedServicesF

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					orAccount s3:CreateBucket s3:GetObject s3:GetObjectVersion s3:ListBucket s3:PutBucketPolicy s3:PutBucketPublicAccessBlock s3:PutBucketVersioning sqs:CreateQueue sqs:GetQueueAttributes

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					sqs:SetQueueAttributes
<a href="#">CreateDataLakeExceptionSubscription</a>	Grants permission to get instant notifications about exceptions. Subscribes to the SNS topics for exception notifications	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataLakeOrganizationConfiguration</a>	Grants permission to automatically enable Amazon Security Lake for new member accounts in your organization	Write	<a href="#">data-lake*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubscriber</a>	Grants permission to create a subscriber	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	iam:CreateRole  iam:DeleteRolePolicy  iam:GetRole  iam:PutRolePolicy  lakeformation:GrantPermissions  lakeformation:ListPermissions  lakeformation:RegisterResource  lakeformation:RevokePermissions

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ram:GetResourceShareAssociations ram:GetResourceShares ram:UpdateResourceShare s3:PutObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSubscriberNotification</a>	Grants permission to create a webhook invocation to notify a client when there is new data in the data lake	Write	<a href="#">subscribe*</a>		events:CreateApiDestination events:CreateConnection events:DescribeRule events:ListApiDestinations events:ListConnections events:PutRule events:PutTargets iam:DeleteRolePolicy iam:GetRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:PassRole s3:GetBucketNotification s3:PutBucketNotification sqs:CreateQueue sqs>DeleteQueue sqs:GetQueueAttributes sqs:GetQueueUrl sqs:SetQueueAttributes
<a href="#">DeleteAwsLogSource</a>	Grants permission to disable any source type in any region for accounts that are part of a trusted organization or standalone accounts	Write	<a href="#">data-lake</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCustomLogSource</a>	Grants permission to remove a custom source	Write	<a href="#">data-lake</a> *		glue:StopCrawlerSchedule
<a href="#">DeleteDataLake</a>	Grants permission to delete security data lake	Write	<a href="#">data-lake</a> *		organizations:DescribeOrganization  organizations:ListDelegatedAdministrators  organizations:ListDelegatedServicesForAccount
<a href="#">DeleteDataLakeExceptionSubscription</a>	Grants permission to unsubscribe from SNS topics for exception notifications. Removes exception notifications for the SNS topic	Write			
<a href="#">DeleteDataLakeOrganizationConfiguration</a>	Grants permission to remove the automatic enablement of Amazon Security Lake access for new organization accounts	Write	<a href="#">data-lake</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSubscriber</a>	Grants permission to delete the specified subscriber	Write	<a href="#">subscribe_r*</a>		events:DeleteApiDestination events:DeleteConnection events:DeleteRule events:DescribeRule events:ListApiDestinations events:ListTargetsByRule events:RemoveTargets iam:DeleteRole iam:DeleteRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:GetRole iam:ListRolePolicies lakeformation:ListPermissions lakeformation:RevokePermissions sqs:DeleteQueue sqs:GetQueueUrl

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSubscriberNotification</a>	Grants permission to remove a webhook invocation to notify a client when there is new data in the data lake	Write	<a href="#">subscribe_r*</a>		events:DeleteApiDestination  events>DeleteConnection  events>DeleteRule  events:DescribeRule  events>ListApiDestinations  events>ListTargetsByRule  events:RemoveTargets  iam>DeleteRole  iam>DeleteRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:GetRole iam:ListRolePolicies lakeformation:RevokePermissions sqs:DeleteQueue sqs:GetQueueUrl
<a href="#">DeregisterDataLakeDelegatedAdministrator</a>	Grants permission to remove the Delegated Administrator account and disable Amazon Security Lake as a service for this organization	Write			organizations:DeregisterDelegatedAdministrator organizations:DescribeOrganization organizations:ListDelegatedServicesForAccount

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDataLakeExceptionSubscription</a>	Grants permission to query the protocol and endpoint that were provided when subscribing to SNS topics for exception notifications	Read			
<a href="#">GetDataLakeOrganizationConfiguration</a>	Grants permission to get an organization's configuration setting for automatically enabling Amazon Security Lake access for new organization accounts	Read	<a href="#">data-lake*</a>		organizations:DescribeOrganization
<a href="#">GetDataLakeSources</a>	Grants permission to get a static snapshot of the security data lake in the current region. The snapshot includes enabled accounts and log sources	Read	<a href="#">data-lake*</a>		
<a href="#">GetSubscriber</a>	Grants permission to get information about subscriber that is already created	Read	<a href="#">subscriber*</a>		
<a href="#">ListDataLakeExceptions</a>	Grants permission to get the list of all non-retryable failures	List			
<a href="#">ListDataLakes</a>	Grants permission to list information about the security data lakes	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListLogSources</a>	Grants permission to view the enabled accounts. You can view the enabled sources in the enabled regions	List			
<a href="#">ListSubscribers</a>	Grants permission to list all subscribers	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all tags for the resource	List	<a href="#">data-lake</a> <a href="#">subscribe</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterDataLakeDelegatedAdministrator</a>	Grants permission to designate an account as the Amazon Security Lake administrator account for the organization	Write			iam:CreateServiceLinkedRole  organizations:DescribeOrganization  organizations:EnableAWSServiceAccess  organizations:ListDelegatedAdministrators  organizations:ListDelegatedServicesForAccount  organizations:RegisterDelegatedAdministrator



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add tags to the resource	Tagging	<a href="#">data-lake</a>		
			<a href="#">subscribe</a> <a href="#">r</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the resource	Tagging	<a href="#">data-lake</a>		
			<a href="#">subscribe</a> <a href="#">r</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataLake</a>	Grants permission to update a security data lake	Write	<a href="#">data-lake</a> * -		events:PutRule  events:PutTargets  iam:CreateServiceLinkedRole  iam:DeleteRolePolicy  iam:GetRole  iam:ListAttachedRolePolicies  iam:PutRolePolicy  kms:CreateGrant  kms:DescribeKey  lakeformation:GetDataLakeSettings

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					lakeformation:PutDataLakeSettings lambda:AddPermission lambda>CreateEventSourceMapping lambda>CreateFunction organizations:DescribeOrganization organizations:ListDelegatedServicesForAccount s3:CreateBucket s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:GetObjectVersion s3:ListBucket s3:PutBucketPolicy s3:PutBucketPublicAccessBlock s3:PutBucketVersioning sqs:CreateQueue sqs:GetQueueAttributes sqs:SetQueueAttributes
<a href="#">UpdateDataLakeExceptionSubscription</a>	Grants permission to update subscriptions to the SNS topics for exception notifications	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSubscriber</a>	Grants permission to update subscriber	Write	<a href="#">subscribe</a> *		events:CreateApiDestination events:CreateConnection events:DescribeRule events:ListApiDestinations events:ListConnections events:PutRule events:PutTargets iam:DeleteRolePolicy iam:GetRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:PutRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSubscriberNotification</a>	Grants permission to update a webhook invocation to notify a client when there is new data in the data lake	Write	<a href="#">subscribe</a> *		events:CreateApiDestination  events:CreateConnection  events:DescribeRule  events:ListApiDestinations  events:ListConnections  events:PutRule  events:PutTargets  iam:CreateServiceLinkedRole  iam:DeleteRolePolicy

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					iam:GetRole
					iam:PassRole
					iam:PutRolePolicy
					s3:CreateBucket
					s3:GetBucketNotification
					s3:ListBucket
					s3:PutBucketNotification
					s3:PutBucketPolicy
					s3:PutBucketPublicAccessBlock
					s3:PutBucketVersioning



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					s3:PutLifecycleConfiguration sqs:CreateQueue sqs>DeleteQueue sqs:GetQueueAttributes sqs:GetQueueUrl sqs:SetQueueAttributes

## Resource types defined by Amazon Security Lake

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">data-lake</a>	arn:\${Partition}:securitylake:\${Region}:\${Account}:data-lake/default	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">subscriber</a>	arn:\${Partition}:securitylake:\${Region}:\${Account}:subscriber/\${SubscriberId}	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Security Lake

Amazon Security Lake defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Security Token Service

AWS Security Token Service (service prefix: sts) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Security Token Service](#)
- [Resource types defined by AWS Security Token Service](#)
- [Condition keys for AWS Security Token Service](#)

## Actions defined by AWS Security Token Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssumeRole</a>	Grants permission to obtain a set of temporary security credentials that you can use to access AWS resources that you might not normally have access to	Write	<a href="#">role*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sts:TransitiveTagKeys</a> <a href="#">sts:ExternalId</a> <a href="#">sts:RoleSessionName</a> <a href="#">iam:ResourceTag/\${TagKey}</a> <a href="#">sts:SourceIdentity</a> <a href="#">cognito-identity.amazonaws.com:amr</a> <a href="#">cognito-identity.amazonaws.com:aud</a> <a href="#">cognito-identity.amazonaws.com:sub</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">www.amazon.com:app_id</a> <a href="#">www.amazon.com:user_id</a> <a href="#">graph.facebook.com:app_id</a> <a href="#">graph.facebook.com:id</a> <a href="#">accounts.google.com:aud</a> <a href="#">accounts.google.com:sub</a> <a href="#">saml:name_qualifier</a> <a href="#">saml:sub</a> <a href="#">saml:sub_type</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssumeRoleWithSAML</a>	Grants permission to obtain a set of temporary security credentials for users who have been authenticated via a SAML authentication response	Write	<a href="#">role*</a>	<a href="#">saml:nameQualifier</a> <a href="#">saml:sub</a> <a href="#">saml:sub_type</a> <a href="#">saml:aud</a> <a href="#">saml:iss</a> <a href="#">saml:doc</a> <a href="#">saml:cn</a> <a href="#">saml:commonName</a> <a href="#">saml:eduroghomepageuri</a> <a href="#">saml:edurogidentityauthpolicyuri</a> <a href="#">saml:eduroglegalname</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">saml:edurorgsuperioruri</a> <a href="#">saml:edurorgwhitepagesuri</a> <a href="#">saml:edupersonaffiliation</a> <a href="#">saml:edupersonassuranc</a> <a href="#">saml:edupersonentitlement</a> <a href="#">saml:edupersonnickname</a> <a href="#">saml:edupersonorgdn</a> <a href="#">saml:edupersonorgunitdn</a> <a href="#">saml:edupersonprim</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>aryaffiliation</u></a> <a href="#"><u>saml:edupersonprimaryorgunitdn</u></a> <a href="#"><u>saml:edupersonprincipalname</u></a> <a href="#"><u>saml:edupersonscopeaffiliation</u></a> <a href="#"><u>saml:edupersontargetedid</u></a> <a href="#"><u>saml:givenName</u></a> <a href="#"><u>saml:mail</u></a> <a href="#"><u>saml:name</u></a> <a href="#"><u>saml:organizationstatus</u></a> <a href="#"><u>saml:primaryGroupSID</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">saml:surname</a> <a href="#">saml:uid</a> <a href="#">saml:x500UniquelDentifier</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">sts:TransitiveTagKeys</a> <a href="#">sts:SourceIdentity</a> <a href="#">sts:RoleSessionName</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssumeRoleWithWebIdentity</a>	Grants permission to obtain a set of temporary security credentials for users who have been authenticated in a mobile or web application with a web identity provider	Write	<a href="#">role*</a>	<a href="#">cognito-identity.amazonaws.com:amr</a> <a href="#">cognito-identity.amazonaws.com:aud</a> <a href="#">cognito-identity.amazonaws.com:sub</a> <a href="#">www.amazon.com:app_id</a> <a href="#">www.amazon.com:user_id</a> <a href="#">graph.facebook.com:app_id</a> <a href="#">graph.facebook.com:id</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#"><u>accounts.google.com:aud</u></a> <a href="#"><u>accounts.google.com:oauth</u></a> <a href="#"><u>accounts.google.com:sub</u></a> <a href="#"><u>aws:TagKeys</u></a> <a href="#"><u>aws:RequestTag/\${TagKey}</u></a> <a href="#"><u>sts:TransitiveTagKeys</u></a> <a href="#"><u>sts:SourceIdentity</u></a> <a href="#"><u>sts:RoleSessionName</u></a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssumeRoot</a>	Grants permission to obtain a set of temporary security credentials that you can use to perform privileged tasks in member accounts in your organization	Write	<a href="#">root-user</a> * -		
<a href="#">DecodeAuthorizationMessage</a>	Grants permission to decode additional information about the authorization status of a request from an encoded message returned in response to an AWS request	Write		<a href="#">sts:TaskPolicyArn</a>	
<a href="#">GetAccessKeyInfo</a>	Grants permission to obtain details about the access key id passed as a parameter to the request	Read			
<a href="#">GetCallerIdentity</a>	Grants permission to obtain details about the IAM identity whose credentials are used to call the API	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDelegatedAccess Token</a>	Returns temporary security credentials for accessing an AWS account after temporary delegation request approval. This API requires the <code>tradelnToken</code> provided upon request delegation approval and is intended to be used only by Amazon or AWS Partners	Write			
<a href="#">GetFederationToken</a>	Grants permission to obtain a set of temporary security credentials (consisting of an access key ID, a secret access key, and a security token) for a federated user	Read	<a href="#">federated-user</a> <a href="#">user</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetServiceBearerToken</a> [permission only]	Grants permission to obtain a STS bearer token for an AWS root user, IAM role, or an IAM user	Read		<a href="#">sts:AWSServiceName</a> <a href="#">sts:DurationSeconds</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSessionToken</a>	Grants permission to obtain a set of temporary security credentials (consisting of an access key ID, a secret access key, and a security token) for an AWS account or IAM user	Read			
<a href="#">GetWebIdentityToken</a>	Grants permission to obtain a short-lived, publicly verifiable JSON Web Token (JWT) that represents the calling IAM principal's identity	Write		<a href="#">sts:DurationSeconds</a> <a href="#">sts:IdentityTokenAudience</a> <a href="#">sts:SigningAlgorithm</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">SetContext</a> [permission only]	Grants permission to set context keys on a STS session	Write	<a href="#">role</a> <a href="#">self-session</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">sts:RequestContext</a> <a href="#">/</a> <a href="#">\${ContextKey}</a>  <a href="#">sts:RequestContextProviders</a>	
<a href="#">SetSourceIdentity</a> [permission only]	Grants permission to set a source identity on a STS session	Write	<a href="#">role</a>		
			<a href="#">user</a>		
				<a href="#">sts:SourceIdentity</a>	
<a href="#">TagGetWebIdentityToken</a> [permission only]	Grants permission to add tags to the JSON Web Token (JWT) generated by the GetWebIdentityToken API	Tagging		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagSession</a> [permission only]	Grants permission to add tags to a STS session	Tagging	<a href="#">role</a>		
			<a href="#">user</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">sts:TransitiveTagKeys</a> <a href="#">saml:aud</a>	

## Resource types defined by AWS Security Token Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">role</a>	arn:\${Partition}:iam::\${Account}:role/\${RoleNameWithPath}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">iam:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">user</a>	arn:\${Partition}:iam::\${Account}:user/\${UserNameWithPath}	
<a href="#">root-user</a>	arn:\${Partition}:iam::\${Account}:root	
<a href="#">self-session</a>	arn:\${Partition}:sts::\${Account}:self	
<a href="#">context-provider</a>	arn:\${Partition}:iam::aws:contextProvider/\${ContextProviderName}	
<a href="#">federated-user</a>	arn:\${Partition}:sts::\${Account}:federated-user/\${FederatedUserName}	

## Condition keys for AWS Security Token Service

AWS Security Token Service defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">accounts.google.com:aud</a>	Filters access by the Google application ID	String
<a href="#">accounts.google.com:aud</a>	Filters access by the Google audience	String
<a href="#">accounts.google.com:sub</a>	Filters access by the subject of the claim (the Google user ID)	String

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">cognito-identity.amazonaws.com:amr</a>	Filters access by the login information for Amazon Cognito	String
<a href="#">cognito-identity.amazonaws.com:aud</a>	Filters access by the Amazon Cognito identity pool ID	String
<a href="#">cognito-identity.amazonaws.com:sub</a>	Filters access by the subject of the claim (the Amazon Cognito user ID)	String
<a href="#">graph.facebook.com:app_id</a>	Filters access by the Facebook application ID	String
<a href="#">graph.facebook.com:id</a>	Filters access by the Facebook user ID	String
<a href="#">iam:ResourceTag/\${TagKey}</a>	Filters access by the tags that are attached to the role that is being assumed	String

Condition keys	Description	Type
<a href="#">saml:aud</a>	Filters access by the endpoint URL to which SAML assertions are presented	String
<a href="#">saml:cn</a>	Filters access by the eduOrg attribute	ArrayOfString
<a href="#">saml:commonName</a>	Filters access by the commonName attribute	String
<a href="#">saml:doc</a>	Filters access by on the principal that was used to assume the role	String
<a href="#">saml:eduroghomepageuri</a>	Filters access by the eduOrg attribute	ArrayOfString
<a href="#">saml:edurogidentit yauthnpolicyuri</a>	Filters access by the eduOrg attribute	ArrayOfString
<a href="#">saml:eduroglegalname</a>	Filters access by the eduOrg attribute	ArrayOfString
<a href="#">saml:edurorgsuperioruri</a>	Filters access by the eduOrg attribute	ArrayOfString
<a href="#">saml:edurorgwhitepagesuri</a>	Filters access by the eduOrg attribute	ArrayOfString
<a href="#">saml:edupersonaffiliation</a>	Filters access by the eduPerson attribute	ArrayOfString
<a href="#">saml:edupersonassurance</a>	Filters access by the eduPerson attribute	ArrayOfString
<a href="#">saml:edupersonentitlement</a>	Filters access by the eduPerson attribute	ArrayOfString

Condition keys	Description	Type
<a href="#">saml:eduPersonnickname</a>	Filters access by the eduPerson attribute	ArrayOfString
<a href="#">saml:eduPersonorgdn</a>	Filters access by the eduPerson attribute	String
<a href="#">saml:eduPersonorgunitdn</a>	Filters access by the eduPerson attribute	ArrayOfString
<a href="#">saml:eduPersonprimaryaffiliation</a>	Filters access by the eduPerson attribute	String
<a href="#">saml:eduPersonprimaryorgunitdn</a>	Filters access by the eduPerson attribute	String
<a href="#">saml:eduPersonprincipalname</a>	Filters access by the eduPerson attribute	String
<a href="#">saml:eduPersonscopedaffiliation</a>	Filters access by the eduPerson attribute	ArrayOfString
<a href="#">saml:eduPersontargetedid</a>	Filters access by the eduPerson attribute	ArrayOfString
<a href="#">saml:givenName</a>	Filters access by the givenName attribute	String
<a href="#">saml:iss</a>	Filters access by on the issuer, which is represented by a URN	String
<a href="#">saml:mail</a>	Filters access by the mail attribute	String
<a href="#">saml:name</a>	Filters access by the name attribute	String

Condition keys	Description	Type
<a href="#">saml:name qualifier</a>	Filters access by the hash value of the issuer, account ID, and friendly name	String
<a href="#">saml:orga nizationStatus</a>	Filters access by the organizationStatus attribute	String
<a href="#">saml:prim aryGroupSID</a>	Filters access by the primaryGroupSID attribute	String
<a href="#">saml:sub</a>	Filters access by the subject of the claim (the SAML user ID)	String
<a href="#">saml:sub_type</a>	Filters access by the value persistent, transient, or the full Format URI	String
<a href="#">saml:surname</a>	Filters access by the surname attribute	String
<a href="#">saml:uid</a>	Filters access by the uid attribute	String
<a href="#">saml:x500 UniqueIdentifier</a>	Filters access by the uid attribute	String
<a href="#">sts:AWSSe rviceName</a>	Filters access by the service that is obtaining a bearer token	String
<a href="#">sts:Durat ionSeconds</a>	Filters access by the duration in seconds when getting a bearer token or a JSON Web Token (JWT) from the GetWebIdentityToken API	Numeric
<a href="#">sts:ExternalId</a>	Filters access by the unique identifier required when you assume a role in another account	String
<a href="#">sts:Ident ityTokenA udience</a>	Filters access by the audience that is passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">sts:RequestContext/\${ContextKey}</a>	Filters access by the session context key-value pairs embedded in the signed context assertion retrieved from a trusted context provider	String
<a href="#">sts:RequestContextProviders</a>	Filters access by the context provider ARNs	ArrayOfARN
<a href="#">sts:RoleSessionName</a>	Filters access by the role session name required when you assume a role	String
<a href="#">sts:SigningAlgorithm</a>	Filters access by the signing algorithm that is passed in the request	String
<a href="#">sts:SourceIdentity</a>	Filters access by the source identity that is passed in the request	String
<a href="#">sts:TaskPolicyArn</a>	Filters access by TaskPolicyARN	String
<a href="#">sts:TransitiveTagKeys</a>	Filters access by the transitive tag keys that are passed in the request	ArrayOfString
<a href="#">www.amazon.com:app_id</a>	Filters access by the Login with Amazon application ID	String
<a href="#">www.amazon.com:user_id</a>	Filters access by the Login with Amazon user ID	String

## Actions, resources, and condition keys for AWS Server Migration Service

AWS Server Migration Service (service prefix: sms) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Server Migration Service](#)
- [Resource types defined by AWS Server Migration Service](#)
- [Condition keys for AWS Server Migration Service](#)

## Actions defined by AWS Server Migration Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.



The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApp</a>	Grants permission to create an application configuration to migrate on-premise application onto AWS	Write			
<a href="#">CreateReplicationJob</a>	Grants permission to create a job to migrate on-premise server onto AWS	Write			
<a href="#">DeleteApp</a>	Grants permission to delete an existing application configuration	Write			
<a href="#">DeleteAppLaunchConfiguration</a>	Grants permission to delete launch configuration for an existing application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAppReplicationConfiguration</a>	Grants permission to delete replication configuration for an existing application	Write			
<a href="#">DeleteAppValidationConfiguration</a>	Grants permission to delete validation configuration for an existing application	Write			
<a href="#">DeleteReplicationJob</a>	Grants permission to delete an existing job to migrate on-premise server onto AWS	Write			
<a href="#">DeleteServerCatalog</a>	Grants permission to delete the complete list of on-premise servers gathered into AWS	Write			
<a href="#">DisassociateConnector</a>	Grants permission to disassociate a connector that has been associated	Write			
<a href="#">GenerateChangeSet</a>	Grants permission to generate a changeSet for the CloudFormation stack of an application	Write			
<a href="#">GenerateTemplate</a>	Grants permission to generate a CloudFormation template for an existing application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApp</a>	Grants permission to get the configuration and statuses for an existing application	Read			
<a href="#">GetAppLaunchConfiguration</a>	Grants permission to get launch configuration for an existing application	Read			
<a href="#">GetAppReplicationConfiguration</a>	Grants permission to get replication configuration for an existing application	Read			
<a href="#">GetAppValidationConfiguration</a>	Grants permission to get validation configuration for an existing application	Read			
<a href="#">GetAppValidationOutput</a>	Grants permission to get notification sent from application validation script.	Read			
<a href="#">GetConnectors</a>	Grants permission to get all connectors that have been associated	Read			
GetMessages [permission only]	Grants permission to gets messages from AWS Server Migration Service to Server Migration Connector	Read			
<a href="#">GetReplicationJobs</a>	Grants permission to get all existing jobs to migrate on-premise servers onto AWS	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetReplicationRuns</a>	Grants permission to get all runs for an existing job	Read			
<a href="#">GetServers</a>	Grants permission to get all servers that have been imported	Read			
<a href="#">ImportAppCatalog</a>	Grants permission to import application catalog from AWS Application Discovery Service	Write			
<a href="#">ImportServerCatalog</a>	Grants permission to gather a complete list of on-premise servers	Write			
<a href="#">LaunchApp</a>	Grants permission to create and launch a CloudFormation stack for an existing application	Write			
<a href="#">ListApps</a>	Grants permission to get a list of summaries for existing applications	List			
<a href="#">NotifyAppValidationOutput</a>	Grants permission to send notification for application validation script	Write			
<a href="#">PutAppLaunchConfiguration</a>	Grants permission to create or update launch configuration for an existing application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAppReplicationConfiguration</a>	Grants permission to create or update replication configuration for an existing application	Write			
<a href="#">PutAppValidationConfiguration</a>	Grants permission to put validation configuration for an existing application	Write			
SendMessage [permission only]	Grants permission to send message from Server Migration Connector to AWS Server Migration Service	Write			
<a href="#">StartAppReplication</a>	Grants permission to create and start replication jobs for an existing application	Write			
<a href="#">StartOnDemandAppReplication</a>	Grants permission to start a replication run for an existing application	Write			
<a href="#">StartOnDemandReplicationRun</a>	Grants permission to start a replication run for an existing replication job	Write			
<a href="#">StopAppReplication</a>	Grants permission to stop and delete replication jobs for an existing application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TerminateApp</a>	Grants permission to terminate the CloudFormation stack for an existing application	Write			
<a href="#">UpdateApp</a>	Grants permission to update an existing application configuration	Write			
<a href="#">UpdateReplicationJob</a>	Grants permission to update an existing job to migrate on-premise server onto AWS	Write			

## Resource types defined by AWS Server Migration Service

AWS Server Migration Service does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Server Migration Service, specify "Resource": "\*" in your policy.

## Condition keys for AWS Server Migration Service

ServerMigrationService has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Serverless Application Repository

AWS Serverless Application Repository (service prefix: `serverlessrepo`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Serverless Application Repository](#)
- [Resource types defined by AWS Serverless Application Repository](#)
- [Condition keys for AWS Serverless Application Repository](#)

## Actions defined by AWS Serverless Application Repository

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateApplication</a>	Grants permission to create an application, optionally including an AWS SAM file to create the first application version in the same call	Write			
<a href="#">CreateApplicationVersion</a>	Grants permission to create an application version	Write	<a href="#">applications*</a>		
<a href="#">CreateCloudFormationChangeSet</a>	Grants permission to create an AWS CloudFormation ChangeSet for the given application	Write	<a href="#">applications*</a>	<a href="#">serverlessrepo:applicationType</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCloudFormationTemplate</a>	Grants permission to create an AWS CloudFormation template	Write	<a href="#">applications*</a>	<a href="#">serverlessrepo:applicationType</a>	
<a href="#">DeleteApplication</a>	Grants permission to delete the specified application	Write	<a href="#">applications*</a>		
<a href="#">GetApplication</a>	Grants permission to get the specified application	Read	<a href="#">applications*</a>	<a href="#">serverlessrepo:applicationType</a>	
<a href="#">GetApplicationPolicy</a>	Grants permission to get the policy for the specified application	Read	<a href="#">applications*</a>		
<a href="#">GetCloudFormationTemplate</a>	Grants permission to get the specified AWS CloudFormation template	Read	<a href="#">applications*</a>		
<a href="#">ListApplicationDependencies</a>	Grants permission to retrieve the list of applications nested in the containing application	List	<a href="#">applications*</a>	<a href="#">serverlessrepo:applicationType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApplicationVersions</a>	Grants permission to list versions for the specified application owned by the requester	List	<a href="#">applications*</a>	<a href="#">serverlessrepo:applicationType</a>	
<a href="#">ListApplications</a>	Grants permission to list applications owned by the requester	List			
<a href="#">PutApplicationPolicy</a>	Grants permission to put the policy for the specified application	Write	<a href="#">applications*</a>		
<a href="#">SearchApplications</a>	Grants permission to get all applications authorized for this user	Read		<a href="#">serverlessrepo:applicationType</a>	
<a href="#">UnshareApplication</a>	Grants permission to unshare the specified application	Write	<a href="#">applications*</a>		
<a href="#">UpdateApplication</a>	Grants permission to update meta-data of the application	Write	<a href="#">applications*</a>		

## Resource types defined by AWS Serverless Application Repository

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">applications</a>	arn:\${Partition}:serverlessrepo:\${Region}:\${Account}:applications/\${ResourceId}	

## Condition keys for AWS Serverless Application Repository

AWS Serverless Application Repository defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">serverlessrepo:applicationType</a>	Filters access by application type	String

## Actions, resources, and condition keys for AWS Service - Oracle Database@AWS

AWS Service - Oracle Database@AWS (service prefix: odb) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Service - Oracle Database@AWS](#)
- [Resource types defined by AWS Service - Oracle Database@AWS](#)
- [Condition keys for AWS Service - Oracle Database@AWS](#)

## Actions defined by AWS Service - Oracle Database@AWS

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptMarketplaceRegistration</a>	Grants permission to register the Amazon Web Services Marketplace token for your Amazon Web Services account to activate your Oracle Database@Amazon Web Services subscription	Write			
<a href="#">CreateAutonomousVmCluster</a>	Grants permission to create a new Autonomous VM cluster in the specified Exadata infrastructure	Write	<a href="#">cloud-exadata-infrastructure*</a>		
			<a href="#">odb-network*</a>		
				<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCloudExadataInfrastructure</a>	Grants permission to create an Exadata infrastructure	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateCloudVmCluster</a>	Grants permission to create a VM cluster on the specified Exadata infrastructure	Write	<a href="#">cloud-exadata-infrastructure*</a> <a href="#">odb-network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDbNode</a> [permission only]	Grants permission to create a DB Node	Write	<a href="#">db-node*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGrantShare</a> [permission only]	Grants permission to create an ODB Grant Share	Write			
<a href="#">CreateOdbNetwork</a>	Grants permission to create an ODB network	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateOdbPeeringConnection</a>	Grants permission to create an ODB Peering Connection	Write	<a href="#">odb-network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateOutboundIntegration</a> [permission only]	Grants permission to create an Outbound Integration	Write	<a href="#">cloud-autonomous-vm-cluster*</a>  <a href="#">cloud-vm-cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCloudAutonomousVmCluster</a>	Grants permission to Deletes an Autonomous VM cluster	Write	<a href="#">cloud-autonomous-vm-cluster*</a>		
<a href="#">DeleteCloudExadataInfrastructure</a>	Grants permission to delete a specified Exadata infrastructure. Before you use this operation, make sure to delete all of the VM clusters that are hosted on this Exadata infrastructure	Write	<a href="#">cloud-exadata-infrastructure*</a>		
<a href="#">DeleteCloudVmCluster</a>	Grants permission to delete a specified VM cluster	Write	<a href="#">cloud-vm-cluster*</a>		
<a href="#">DeleteDbNode</a> [permission only]	Grants permission to delete a DB Node	Write	<a href="#">db-node*</a>		
<a href="#">DeleteGrantShare</a> [permission only]	Grants permission to delete an ODB Grant Share	Write			
<a href="#">DeleteOdbNetwork</a>	Grants permission to delete the specified ODB network	Write	<a href="#">odb-network*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOdbPeeringConnection</a>	Grants permission to delete the specified ODB Peering Connection. When you delete an ODB peering connection, the underlying VPC peering connection is also deleted	Write	<a href="#">odb-peering-connection*</a>		
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete a resource policy	Write	<a href="#">cloud-exadata-infrastructure*</a>		
			<a href="#">odb-network*</a>		
<a href="#">GetCloudAutonomousVmCluster</a>	Grants permission to get information about a specific Autonomous VM cluster	Read	<a href="#">cloud-autonomous-vm-cluster*</a>		
<a href="#">GetCloudExadataInfrastructure</a>	Grants permission to get information about the specified Exadata infrastructure	Read	<a href="#">cloud-exadata-infrastructure*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCloudExadataInfrastructureUnallocatedResources</a>	Grants permission to retrieve information about unallocated resources in a specified Cloud Exadata Infrastructure	Read	<a href="#">cloud-exadata-infrastructure*</a>		
<a href="#">GetCloudVMCluster</a>	Grants permission to get information about the specified VM cluster	Read	<a href="#">cloud-vm-cluster*</a>		
<a href="#">GetDbNode</a>	Grants permission to get information about the specified DB node	Read	<a href="#">cloud-vm-cluster*</a>		
			<a href="#">db-node*</a>		
<a href="#">GetDbServer</a>	Grants permission to get information about the specified database server	Read	<a href="#">cloud-exadata-infrastructure*</a>		
<a href="#">GetOciOnboardingStatus</a>	Grants permission to get the tenancy activation link and onboarding status for your Amazon Web Services account	Read			
<a href="#">GetOdbNetwork</a>	Grants permission to get information about the specified ODB network	Read	<a href="#">odb-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOdbPeeringConnection</a>	Grants permission to get information about the specified ODB Peering connection	Read	<a href="#">odb-peering-connection*</a>		
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to get a resource policy	Read	<a href="#">cloud-exadata-infra-structure*</a>		
<a href="#">InitializeService</a>	Grants permission to initialize the ODB service for the first time in an account	Write	<a href="#">odb-network*</a>		
<a href="#">ListAutonomousVirtualMachines</a>	Grants permission to list all Autonomous VMs in an Autonomous VM cluster	Read	<a href="#">cloud-autonomous-vm-cluster</a>		
<a href="#">ListCloudAutonomousVmClusters</a>	Grants permission to list all Autonomous VM clusters in a specified Cloud Exadata infrastructure	List	<a href="#">cloud-exadata-infra-structure</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCloudExadataInfrastructures</a>	Grants permission to list information about the Exadata infrastructures owned by your Amazon Web Services account	List			
<a href="#">ListCloudVmClusters</a>	Grants permission to list information about the VM clusters owned by your Amazon Web Services account or only the ones on the specified Exadata infrastructure	List	<a href="#">cloud-exadata-infrastructure</a>		
<a href="#">ListDbNodes</a>	Grants permission to list information about the DB nodes for the specified VM cluster	List	<a href="#">cloud-vm-cluster*</a>		
<a href="#">ListDbServers</a>	Grants permission to list information about the database servers that belong to the specified Exadata infrastructure	Read	<a href="#">cloud-exadata-infrastructure*</a>		
<a href="#">ListDbSystemShapes</a>	Grants permission to list information about the shapes that are available for an Exadata infrastructure	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListGiVersions</a>	Grants permission to list information about Oracle Grid Infrastructure (GI) software versions that are available for a VM cluster for the specified shape	Read			
<a href="#">ListOdbNetworks</a>	Grants permission to list information about the ODB networks owned by your Amazon Web Services account	List			
<a href="#">ListOdbPeeringConnections</a>	Grants permission to list all ODB peering connections or those associated with a specific ODB network	List	<a href="#">odb-network</a>		
<a href="#">ListSystemVersions</a>	Grants permission to list information about the system versions that are available for a VM cluster for the specified giVersion and shape	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list information about the tags applied to this resource	Read	<a href="#">cloud-autonomous-vm-cluster</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cloud-exadata-infrastructure</a>		
			<a href="#">cloud-vm-cluster</a>		
			<a href="#">db-node</a>		
			<a href="#">odb-network</a>		
			<a href="#">odb-peering-connection</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to update a resource policy	Write	<a href="#">cloud-exadata-infrastructure*</a>		
			<a href="#">odb-network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RebootDbNode</a>	Grants permission to reboot the specified DB node in a VM cluster	Write	<a href="#">cloud-vm-cluster*</a> <a href="#">db-node*</a>		
<a href="#">StartDbNode</a>	Grants permission to start the specified DB node in a VM cluster	Write	<a href="#">cloud-vm-cluster*</a> <a href="#">db-node*</a>		
<a href="#">StopDbNode</a>	Grants permission to stop the specified DB node in a VM cluster	Write	<a href="#">cloud-vm-cluster*</a>		
<a href="#">TagResource</a>	Grants permission to apply tags to the specified resource	Tagging	<a href="#">cloud-autonomous-vm-cluster</a> <a href="#">cloud-exadata-infra-structure</a> <a href="#">cloud-vm-cluster</a> <a href="#">db-node</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">odb-network</a>		
			<a href="#">odb-peering-connection</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified resource	Tagging	<a href="#">cloud-autonomous-vm-cluster</a>		
			<a href="#">cloud-exadata-infrastructure</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">cloud-vm-cluster</a>		
			<a href="#">db-node</a>		
			<a href="#">odb-network</a>		
			<a href="#">odb-peering-connection</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateCloudExadataInfrastructure</a>	Grants permission to update the properties of an Exadata infrastructure resource	Write	<a href="#">cloud-exadata-infrastructure*</a>		
<a href="#">UpdateGrantShare</a> [permission only]	Grants permission to update an ODB Grant Share	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOdbNetwork</a>	Grants permission to update properties of a specified ODB network	Write	<a href="#">odb-network*</a>		
<a href="#">UpdateOdbPeeringConnection</a>	Grants permission to update properties of a specified ODB Peering Connection	Write	<a href="#">odb-peering-connection*</a>		
<a href="#">UpdateOutboundIntegration</a> [permission only]	Grants permission to update an Outbound Integration	Write	<a href="#">cloud-autonomous-vm-cluster*</a>		
			<a href="#">cloud-vm-cluster*</a>		

## Resource types defined by AWS Service - Oracle Database@AWS

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cloud-autonomous-vm-cluster</a>	arn:\${Partition}:odb:\${Region}:\${Account}:cloud-autonomous-vm-cluster/\${CloudAutonomousVmClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cloud-exadata-infrastructure</a>	arn:\${Partition}:odb:\${Region}:\${Account}:cloud-exadata-infrastructure/\${CloudExadataInfrastructureId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">cloud-vm-cluster</a>	arn:\${Partition}:odb:\${Region}:\${Account}:cloud-vm-cluster/\${CloudVmClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">db-node</a>	arn:\${Partition}:odb:\${Region}:\${Account}:db-node/\${DbNodeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">odb-network</a>	arn:\${Partition}:odb:\${Region}:\${Account}:odb-network/\${OdbNetworkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">odb-peering-connection</a>	arn:\${Partition}:odb:\${Region}:\${Account}:odb-peering-connection/\${OdbPeeringConnectionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Service - Oracle Database@AWS

AWS Service - Oracle Database@AWS defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Service Catalog

AWS Service Catalog (service prefix: `servicecatalog`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Service Catalog](#)
- [Resource types defined by AWS Service Catalog](#)
- [Condition keys for AWS Service Catalog](#)

## Actions defined by AWS Service Catalog


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptPortfolioShare</a>	Grants permission to accept a portfolio that has been shared with you	Write	<a href="#">Portfolio</a> *		
<a href="#">AssociateAttributeGroup</a>	Grants permission to associate an attribute group with an application	Write	<a href="#">Application</a>  <a href="#">AttributeGroup</a> *		
<a href="#">AssociateBudgetWithResource</a>	Grants permission to associate a budget with a resource	Write			
<a href="#">AssociatePrincipalWithPortfolio</a>	Grants permission to associate an IAM principal with a portfolio, giving the specified principal access to any products associated with the specified portfolio	Write	<a href="#">Portfolio</a> *		
<a href="#">AssociateProductWithPortfolio</a>	Grants permission to associate a product with a portfolio	Write			
<a href="#">AssociateResource</a>	Grants permission to associate a resource with an application	Write	<a href="#">Application</a> *		cloudformation:DescribeStacks  resource-groups>CreateGroup

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					resource-groups:GetGroup  resource-groups:Tag
<a href="#">AssociateServiceActionWithProvisioningArtifact</a>	Grants permission to associate an action with a provisioning artifact	Write	<a href="#">Product*</a>	<a href="#">servicecatalog:ResourceType</a>  <a href="#">servicecatalog:Resource</a>	
<a href="#">AssociateTagOptionWithResource</a>	Grants permission to associate the specified TagOption with the specified portfolio or product	Write	<a href="#">Portfolio</a>  <a href="#">Product</a>		
<a href="#">BatchAssociateServiceActionWithProvisioningArtifact</a>	Grants permission to associate multiple self-service actions with provisioning artifacts	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDisassociateServiceActionFromProvisioningArtifact</a>	Grants permission to disassociate a batch of self-service actions from the specified provisioning artifact	Write			
<a href="#">CopyProduct</a>	Grants permission to copy the specified source product to the specified target product or a new product	Write			
<a href="#">CreateApplication</a>	Grants permission to create an application	Write	<a href="#">Application*</a>		iam:CreateServiceLinkedRole
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAttributeGroup</a>	Grants permission to create an attribute group	Write	<a href="#">AttributeGroup*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateConstraint</a>	Grants permission to create a constraint on an associated product and portfolio	Write	<a href="#">Product*</a>		
<a href="#">CreatePortfolio</a>	Grants permission to create a portfolio	Write	<a href="#">Portfolio*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePortfolioShare</a>	Grants permission to share a portfolio you own with another AWS account	Permissions management	<a href="#">Portfolio*</a>		
<a href="#">CreateProduct</a>	Grants permission to create a product and that product's first provisioning artifact	Write	<a href="#">Product*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProvisionedProductPlan</a>	Grants permission to add a new provisioned product plan	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProvisioningArtifact</a>	Grants permission to add a new provisioning artifact to an existing product	Write	<a href="#">Product*</a>	<a href="#">servicecatalog:accountLevel</a> <a href="#">servicecatalog:roleLevel</a> <a href="#">servicecatalog:userLevel</a>	
<a href="#">CreateServiceAction</a>	Grants permission to create a self-service action	Write			
<a href="#">CreateTagOption</a>	Grants permission to create a TagOption	Write			
<a href="#">DeleteApplication</a>	Grants permission to delete an application if all associations have been removed from the application	Write	<a href="#">Application*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAttributeGroup</a>	Grants permission to delete an attribute group if all associations have been removed from the attribute group	Write	<a href="#">AttributeGroup*</a>		
<a href="#">DeleteConstraint</a>	Grants permission to remove and delete an existing constraint from an associated product and portfolio	Write			
<a href="#">DeletePortfolio</a>	Grants permission to delete a portfolio if all associations and shares have been removed from the portfolio	Write	<a href="#">Portfolio*</a>		
<a href="#">DeletePortfolioShare</a>	Grants permission to unshare a portfolio you own from an AWS account you previously shared the portfolio with	Permissions management	<a href="#">Portfolio*</a>		
<a href="#">DeleteProduct</a>	Grants permission to delete a product if all associations have been removed from the product	Write	<a href="#">Product*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProvisionedProductPlan</a>	Grants permission to delete a provisioned product plan	Write		<a href="#">servicecatalog:accountLevel</a> <a href="#">servicecatalog:roleLevel</a> <a href="#">servicecatalog:userLevel</a>	
<a href="#">DeleteProvisioningArtifact</a>	Grants permission to delete a provisioning artifact from a product	Write	<a href="#">Product*</a>		
<a href="#">DeleteResourcePolicy</a> [permission only]	Grants permission to delete a resource-based policy for the specified resource	Write	<a href="#">Application</a> <a href="#">AttributeGroup</a>		
<a href="#">DeleteServiceAction</a>	Grants permission to delete a self-service action	Write			
<a href="#">DeleteTagOption</a>	Grants permission to delete the specified TagOption	Write			
<a href="#">DescribeConstraint</a>	Grants permission to describe a constraint	Read			
<a href="#">DescribeCopyProductStatus</a>	Grants permission to get the status of the specified copy product operation	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePortfolio</a>	Grants permission to describe a portfolio	Read	<a href="#">Portfolio</a> *		
<a href="#">DescribePortfolioShareStatus</a>	Grants permission to get the status of the specified portfolio share operation	Read			
<a href="#">DescribePortfolioShares</a>	Grants permission to view a summary of each of the portfolio shares that were created for the specified portfolio	List	<a href="#">Portfolio</a> *		
<a href="#">DescribeProduct</a>	Grants permission to describe a product as an end-user	Read	<a href="#">Product*</a>		
<a href="#">DescribeProductAsAdmin</a>	Grants permission to describe a product as an admin	Read	<a href="#">Product*</a>		
<a href="#">DescribeProductView</a>	Grants permission to describe a product as an end-user	Read			
<a href="#">DescribeProvisionedProduct</a>	Grants permission to describe a provisioned product	Read		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:UserRoleLevel</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeProvisionedProductPlan</a>	Grants permission to describe a provisioned product plan	Read		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">DescribeProvisioningArtifact</a>	Grants permission to describe a provisioning artifact	Read	<a href="#">Product*</a>		
<a href="#">DescribeProvisioningParameters</a>	Grants permission to describe the parameters that you need to specify to successfully provision a specified provisioning artifact	Read	<a href="#">Product*</a>		
<a href="#">DescribeRecord</a>	Grants permission to describe a record and lists any outputs	Read		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeServiceAction</a>	Grants permission to describe a self-service action	Read			
<a href="#">DescribeServiceActionExecutionParameters</a>	Grants permission to get the default parameters if you executed the specified Service Action on the specified Provisioned Product	Read		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">DescribeTagOption</a>	Grants permission to get information about the specified TagOption	Read			
<a href="#">DisableAWSOrganizationsAccess</a>	Grants permission to disable portfolio sharing through AWS Organizations feature	Write			
<a href="#">DisassociateAttributeGroup</a>	Grants permission to disassociate an attribute group from an application	Write	<a href="#">Application*</a>  <a href="#">AttributeGroup*</a>		
<a href="#">DisassociateBudgetFromResource</a>	Grants permission to disassociate a budget from a resource	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociatePrincipalFromPortfolio</a>	Grants permission to disassociate an IAM principal from a portfolio	Write	<a href="#">Portfolio</a> *		
<a href="#">DisassociateProductFromPortfolio</a>	Grants permission to disassociate a product from a portfolio	Write			
<a href="#">DisassociateResource</a>	Grants permission to disassociate a resource from an application	Write	<a href="#">Application</a> *		resource-groups:DeleteGroup
				<a href="#">servicecatalog:ResourceType</a>	
				<a href="#">servicecatalog:Resource</a>	
<a href="#">DisassociateServiceActionFromProvisioningArtifact</a>	Grants permission to disassociate the specified self-service action association from the specified provisioning artifact	Write	<a href="#">Product</a> *		
<a href="#">DisassociateTagOptionFromResource</a>	Grants permission to disassociate the specified TagOption from the specified resource	Write	<a href="#">Portfolio</a>		
			<a href="#">Product</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableAWSOrganizationsAccess</a>	Grants permission to enable portfolio sharing feature through AWS Organizations	Write			
<a href="#">ExecuteProvisionedProductPlan</a>	Grants permission to execute a provisioned product plan	Write		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">ExecuteProvisionedProductServiceAction</a>	Grants permission to executes a provisioned product plan	Write		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">GetAWSOrganizationAccessStatus</a>	Grants permission to get the access status of AWS Organization portfolio share feature	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetApplication</a>	Grants permission to get an application	Read	<a href="#">Application*</a>		
<a href="#">GetAssociatedResource</a>	Grants permission to get information about a resource associated to an application	Read	<a href="#">Application*</a>	<a href="#">servicecatalog:ResourceType</a> <a href="#">servicecatalog:Resource</a>	
<a href="#">GetAttributeGroup</a>	Grants permission to get an attribute group	Read	<a href="#">AttributeGroup*</a>		
<a href="#">GetConfiguration</a>	Grants permission to read AppRegistry configurations	Read			
<a href="#">GetProvisionedProductOutputs</a>	Grants permission to get the provisioned product output with either provisioned product id or name	Read			
<a href="#">GetResourcePolicy</a> [permission only]	Grants permission to get a resource-based policy for the specified resource	Read	<a href="#">Application</a> <a href="#">AttributeGroup</a>		
<a href="#">ImportAsProvisionedProduct</a>	Grants permission to import a resource into a provisioned product	Write	<a href="#">Product*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAcceptedPortfolioShares</a>	Grants permission to list the portfolios that have been shared with you and you have accepted	List			
<a href="#">ListApplications</a>	Grants permission to list your applications	List			
<a href="#">ListAssociatedAttributeGroups</a>	Grants permission to list the attribute groups associated with an application	List	<a href="#">Application*</a>		
<a href="#">ListAssociatedResources</a>	Grants permission to list the resources associated with an application	List	<a href="#">Application*</a>		
<a href="#">ListAttributeGroups</a>	Grants permission to list your attribute groups	List			
<a href="#">ListAttributeGroupsForApplication</a>	Grants permission to list the associated attribute groups for a given application	List	<a href="#">Application*</a>		
<a href="#">ListBudgetsForResource</a>	Grants permission to list all the budgets associated to a resource	List			
<a href="#">ListConstraintsForPortfolio</a>	Grants permission to list constraints associated with a given portfolio	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListLaunchPaths</a>	Grants permission to list the different ways to launch a given product as an end-user	List	<a href="#">Product*</a>		
<a href="#">ListOrganizationPortfolioAccess</a>	Grants permission to list the organization nodes that have access to the specified portfolio	List			
<a href="#">ListPortfolioAccess</a>	Grants permission to list the AWS accounts you have shared a given portfolio with	List	<a href="#">Portfolio*</a>		
<a href="#">ListPortfolios</a>	Grants permission to list the portfolios in your account	List			
<a href="#">ListPortfoliosForProduct</a>	Grants permission to list the portfolios associated with a given product	List	<a href="#">Product*</a>		
<a href="#">ListPrincipalsForPortfolio</a>	Grants permission to list the IAM principals associated with a given portfolio	List	<a href="#">Portfolio*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProvisionedProductPlans</a>	Grants permission to list the provisioned product plans	List		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">ListProvisioningArtifacts</a>	Grants permission to list the provisioning artifacts associated with a given product	List	<a href="#">Product*</a>		
<a href="#">ListProvisioningArtifactsForServiceAction</a>	Grants permission to list all provisioning artifacts for the specified self-service action	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecordHistory</a>	Grants permission to list all the records in your account or all the records related to a given provisioned product	List		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">ListResourcesForTagOption</a>	Grants permission to list the resources associated with the specified TagOption	List			
<a href="#">ListServiceActions</a>	Grants permission to list all self-service actions	List			
<a href="#">ListServiceActionsForProvisioningArtifact</a>	Grants permission to list all the service actions associated with the specified provisioning artifact in your account	List	<a href="#">Product*</a>	<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStackInstancesForProvisionedProduct</a>	Grants permission to list account, region and status of each stack instances that are associated with a CFN_STACK SET type provisioned product	List		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">ListTagOptions</a>	Grants permission to list the specified TagOptions or all TagOptions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a service catalog appregistry resource	Read	<a href="#">Application</a>  <a href="#">AttributeGroup</a>		
<a href="#">NotifyProvisionProductEngineWorkflowResult</a>	Grants permission to notify the result of the provisioning engine execution	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">NotifyTerminateProvisionedProductEngineWorkflowResult</a>	Grants permission to notify the result of the terminate engine execution	Write			
<a href="#">NotifyUpdateProvisionedProductEngineWorkflowResult</a>	Grants permission to notify the result of the update engine execution	Write			
<a href="#">ProvisionProduct</a>	Grants permission to provision a product with a specified provisioning artifact and launch parameters	Write	<a href="#">Product*</a>		
<a href="#">PutConfiguration</a>	Grants permission to assign AppRegistry configurations	Write			
<a href="#">PutResourcePolicy</a> [permission only]	Grants permission to add a resource-based policy for the specified resource	Write	<a href="#">Application</a> <a href="#">Attribute Group</a>		
<a href="#">RejectPortfolioShare</a>	Grants permission to reject a portfolio that has been shared with you that you previously accepted	Write	<a href="#">Portfolio</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ScanProvisionedProducts</a>	Grants permission to list all the provisioned products in your account	List		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	
<a href="#">SearchProducts</a>	Grants permission to list the products available to you as an end-user	List			
<a href="#">SearchProductsAsAdmin</a>	Grants permission to list all the products in your account or all the products associated with a given portfolio	List			
<a href="#">SearchProvisionedProducts</a>	Grants permission to list all the provisioned products in your account	List		<a href="#">servicecatalog:accountLevel</a>  <a href="#">servicecatalog:roleLevel</a>  <a href="#">servicecatalog:userLevel</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SyncResource</a>	Grants permission to sync a resource with its current state in AppRegistry	Write			cloudformation:UpdateStack
<a href="#">TagResource</a>	Grants permission to tag a service catalog appregistry resource	Tagging	<a href="#">Application</a>		
			<a href="#">Attribute Group</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TerminateProvisionedProduct</a>	Grants permission to terminate an existing provisioned product	Write		<a href="#">servicecatalog:accountLevel</a>	
				<a href="#">servicecatalog:roleLevel</a>	
				<a href="#">servicecatalog:useLevel</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from a service catalog appregistry resource	Tagging	<a href="#">Application</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Attribute Group</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplication</a>	Grants permission to update the attributes of an existing application	Write	<a href="#">Application*</a>		iam:CreateServiceLinkedRole
<a href="#">UpdateAttributeGroup</a>	Grants permission to update the attributes of an existing attribute group	Write	<a href="#">AttributeGroup*</a>		
<a href="#">UpdateConstraint</a>	Grants permission to update the metadata fields of an existing constraint	Write			
<a href="#">UpdatePortfolio</a>	Grants permission to update the metadata fields and/or tags of an existing portfolio	Write	<a href="#">Portfolio* -</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdatePortfolioShare</a>	Grants permission to enable or disable resource sharing for an existing portfolio share	Permissions management	<a href="#">Portfolio* -</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateProduct</a>	Grants permission to update the metadata fields and/or tags of an existing product	Write	<a href="#">Product*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateProvisionedProduct</a>	Grants permission to update an existing provisioned product	Write		<a href="#">servicecatalog:accountLevel</a> <a href="#">servicecatalog:roleLevel</a> <a href="#">servicecatalog:UserRoleLevel</a>	
<a href="#">UpdateProvisionedProductProperties</a>	Grants permission to update the properties of an existing provisioned product	Write			
<a href="#">UpdateProvisioningArtifact</a>	Grants permission to update the metadata fields of an existing provisioning artifact	Write	<a href="#">Product*</a>		
<a href="#">UpdateServiceAction</a>	Grants permission to update a self-service action	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTagOption</a>	Grants permission to update the specified TagOption	Write			

## Resource types defined by AWS Service Catalog

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Application</a>	arn:\${Partition}:servicecatalog:\${Region}:\${Account}:/applications/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Attribute Group</a>	arn:\${Partition}:servicecatalog:\${Region}:\${Account}:/attribute-groups/\${AttributeGroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Portfolio</a>	arn:\${Partition}:catalog:\${Region}:\${Account}:portfolio/\${PortfolioId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">Product</a>	arn:\${Partition}:catalog:\${Region}:\${Account}:product/\${ProductId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Service Catalog

AWS Service Catalog defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

**Note**

For example policies that show how these condition keys can be used in an IAM policy, see [Example Access Policies for Provisioned Product Management](#) in the *Service Catalog Administrator Guide*.

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">servicecatalog:Resource</a>	Filters access by controlling what value can be specified as the Resource parameter in an AppRegistry associate resource API	String
<a href="#">servicecatalog:ResourceType</a>	Filters access by controlling what value can be specified as the ResourceType parameter in an AppRegistry associate resource API	String
<a href="#">servicecatalog:accountLevel</a>	Filters access by user to see and perform actions on resources created by anyone in the account	String
<a href="#">servicecatalog:roleLevel</a>	Filters access by user to see and perform actions on resources created either by them or by anyone federating into the same role as them	String

Condition keys	Description	Type
<a href="#">serviceca</a> <a href="#">talog:userLevel</a>	Filters access by user to see and perform actions on only resources that they created	String

## Actions, resources, and condition keys for AWS service providing managed private networks

AWS service providing managed private networks (service prefix: `private-networks`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS service providing managed private networks](#)
- [Resource types defined by AWS service providing managed private networks](#)
- [Condition keys for AWS service providing managed private networks](#)

## Actions defined by AWS service providing managed private networks

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcknowledgeOrderReceipt</a>	Grants permission to acknowledge that an order has been received	Write	<a href="#">order*</a>		
<a href="#">ActivateDeviceIdentifier</a>	Grants permission to activate a device identifier	Write	<a href="#">device-identifier*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ActivateNetworkSite</a>	Grants permission to activate a network site	Write	<a href="#">network-site*</a>		
			<a href="#">order*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">ConfigureAccessPoint</a>	Grants permission to configure an access point	Write	<a href="#">network-resource*</a>		
<a href="#">CreateNetwork</a>	Grants permission to create a network	Write	<a href="#">network*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateNetworkSite</a>	Grants permission to create a network site	Write	<a href="#">network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeactivateDeviceIdentifier</a>	Grants permission to deactivate a device identifier	Write	<a href="#">device-identifier*</a>		
<a href="#">DeleteNetwork</a>	Grants permission to delete a network	Write	<a href="#">network*</a>		
<a href="#">DeleteNetworkSite</a>	Grants permission to delete a network site	Write	<a href="#">network-site*</a>		
<a href="#">GetDeviceIdentifier</a>	Grants permission to get a device identifier	Read	<a href="#">device-identifier*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetNetwork</a>	Grants permission to get a network	Read	<a href="#">network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetNetworkResource</a>	Grants permission to get a network resource	Read	<a href="#">network-resource*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetNetworkSite</a>	Grants permission to get a network site	Read	<a href="#">network-site*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetOrder</a>	Grants permission to get a network order	Read	<a href="#">order*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListDeviceIdentifiers</a>	Grants permission to list device identifiers	List	<a href="#">network*</a>		
<a href="#">ListNetworkResources</a>	Grants permission to list network resources	List	<a href="#">network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListNetworkSites</a>	Grants permission to list network sites	List	<a href="#">network*</a>		
<a href="#">ListNetworks</a>	Grants permission to list networks	List			
<a href="#">ListOrders</a>	Grants permission to list network orders	List	<a href="#">network*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for a resource	List			
<a href="#">Ping</a>	Grants permission to check the health of the service	Read			
<a href="#">StartNetworkResourceUpdate</a>	Grants permission to start an update on the specified network resource	Write	<a href="#">network-resource*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TagResource</a>	Grants permission to add tags to the specified resource	Tagging	<a href="#">device-identifier</a> <a href="#">network</a> <a href="#">network-resource</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-site</a>		
			<a href="#">order</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to removes tags from the specified resource	Tagging	<a href="#">device-identifier</a>		
			<a href="#">network</a>		
			<a href="#">network-resource</a>		
			<a href="#">network-site</a>		
			<a href="#">order</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateNetworkSite</a>	Grants permission to update a network site	Write	<a href="#">network-site*</a>		
<a href="#">UpdateNetworkSitePlan</a>	Grants permission to update a plan at a network site	Write	<a href="#">network-site*</a>		

## Resource types defined by AWS service providing managed private networks

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">network</a>	arn:\${Partition}:private-networks:\${Region}:\${Account}:network/\${NetworkName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">network-site</a>	arn:\${Partition}:private-networks:\${Region}:\${Account}:network-site/\${NetworkName}/\${NetworkSiteName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">network-resource</a>	arn:\${Partition}:private-networks:\${Region}:\${Account}:network-resource/\${NetworkName}/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">order</a>	arn:\${Partition}:private-networks:\${Region}:\${Account}:order/\${NetworkName}/\${OrderId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">device-identifier</a>	arn:\${Partition}:private-networks:\${Region}:\${Account}:device-identifier/\${NetworkName}/\${DeviceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS service providing managed private networks

AWS service providing managed private networks defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by checking the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by checking tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Service Quotas

Service Quotas (service prefix: `servicequotas`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Service Quotas](#)
- [Resource types defined by Service Quotas](#)
- [Condition keys for Service Quotas](#)

## Actions defined by Service Quotas

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name.

However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateServiceQuotaTemplate</a>	Grants permission to associate the Service Quotas template with your organization	Write			organizations:DescribeOrganization  organizations:EnableAWSServiceAccess
<a href="#">CreateSupportCase</a>	Grants permission to submit a request to create a support case for an existing quota increase request	Write			
<a href="#">DeleteServiceQuotaIncreaseRequestFromTemplate</a>	Grants permission to remove the specified service quota from the service quota template	Write			organizations:DescribeOrganization
<a href="#">DisassociateServiceQuotaTemplate</a>	Grants permission to disassociate the Service Quotas template from your organization	Write			organizations:DescribeOrganization
<a href="#">GetAWSDefaultServiceQuota</a>	Grants permission to return the details for the specified service quota, including the AWS default value	Read			
<a href="#">GetAssociationForS</a>	Grants permission to retrieve the ServiceQuotaTempla	Read			organizations:Desc

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ServiceQuotaTemplate</a>	teAssociationStatus value, which tells you if the Service Quotas template is associated with an organization				RetrieveOrganization
<a href="#">GetAutomaticManagementConfiguration</a>	Grants permission to retrieve the automatic management of Service Quotas configuration, including notification settings, opt-in type, and excluded quotas	Read			
<a href="#">GetQuotaUtilizationReport</a>	Grants permission to view the generated report	Read			
<a href="#">GetRequestedServiceQuotaChange</a>	Grants permission to retrieve the details for a particular service quota increase request	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetServiceQuota</a>	Grants permission to return the details for the specified service quota, including the applied value	Read	<a href="#">quota</a>		autoscaling:DescribeAccountLimits cloudformation:DescribeAccountLimits dynamodb:DescribeLimits elasticloadbalancing:DescribeAccountLimits iam:GetAccountSummary kinesis:DescribeLimits rds:DescribeAccountAttributes

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					route53:GetAccountLimit
				<a href="#">servicequotas:service</a>	
<a href="#">GetServiceQuotaIncreaseRequestFromTemplate</a>	Grants permission to retrieve the details for a service quota increase request from the service quota template	Read	<a href="#">quota</a>		organizations:DescribeOrganization
				<a href="#">servicequotas:service</a>	
<a href="#">ListAWSDefaultServiceQuotas</a>	Grants permission to list all default service quotas for the specified AWS service	Read			
<a href="#">ListRequestedServiceQuotaChangeHistory</a>	Grants permission to request a list of the changes to quotas for a service	Read			
<a href="#">ListRequestedServiceQuotaChangeHistoryByQuota</a>	Grants permission to request a list of the changes to specific service quotas	Read	<a href="#">quota</a>		
				<a href="#">servicequotas:service</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListServiceQuotaIncreaseRequestsInTemplate</a>	Grants permission to return a list of the service quota increase requests from the service quota template	Read			organizations:DescribeOrganization

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListServiceQuotas</a>	Grants permission to list all service quotas for the specified AWS service, in that account, in that Region	Read			autoscaling:DescribeAccountLimits  cloudformation:DescribeAccountLimits  dynamodb:DescribeLimits  elasticloadbalancing:DescribeAccountLimits  iam:GetAccountSummary  kinesis:DescribeLimits  rds:DescribeAccountAttributes

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					route53:GetAccountLimit
<a href="#">ListServices</a>	Grants permission to list the AWS services available in Service Quotas	Read			
<a href="#">ListTagsForResource</a>	Grants permission to view the existing tags on a SQ resource	Read			
<a href="#">PutServiceQuotaIncreaseRequestIntoTemplate</a>	Grants permission to define and add a quota to the service quota template	Write	<a href="#">quota</a>		organizations:DescribeOrganization
				<a href="#">servicequotas:service</a>	
<a href="#">RequestServiceQuotaIncrease</a>	Grants permission to submit the request for a service quota increase	Write	<a href="#">quota</a>		
				<a href="#">servicequotas:service</a>	
<a href="#">StartAutomaticManagement</a>	Grants permission to enable automatic management of Service Quotas for an AWS account, including notification preferences and excluded quotas configurations	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartQuotaUtilizationReport</a>	Grants permission to query quota utilization and create a report for your account	Read			
<a href="#">StopAutomaticManagement</a>	Grants permission to stop automatic management of Service Quotas for an AWS account and remove all associated configurations	Write			
<a href="#">TagResource</a>	Grants permission to associate a set of tags with an existing SQ resource	Tagging		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a set of tags from a SQ resource, where tags to be removed match a set of customer-supplied tag keys	Tagging		<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAutomaticManagement</a>	Grants permission to update the automatic management of Service Quotas configuration, including notification preferences and excluded quotas	Write			



## Resource types defined by Service Quotas

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">quota</a>	arn:\${Partition}:servicequotas:\${Region}:\${Account}:\${ServiceCode}/\${QuotaCode}	

## Condition keys for Service Quotas

Service Quotas defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">servicequotas:service</a>	Filters access by the specified AWS service	String

## Actions, resources, and condition keys for Amazon SES

Amazon SES (service prefix: ses) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon SES](#)
- [Resource types defined by Amazon SES](#)
- [Condition keys for Amazon SES](#)

## Actions defined by Amazon SES

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CloneReceiptRuleSet</a>	Grants permission to create a receipt rule set by cloning an existing one	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateConfigurationSet</a>	Grants permission to create a new configuration set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateConfigurationSetEventDestination</a>	Grants permission to create a configuration set event destination	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">nSetEventDestination</a>					
<a href="#">CreateConfigurationSet</a> <a href="#">nSetTrackingOptions</a>	Grants permission to creates an association between a configuration set and a custom domain for open and click event tracking	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateCustomVerificationEmailTemplate</a>	Grants permission to create a new custom verification email template	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateReceiptFilter</a>	Grants permission to create a new IP address filter	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateReceiptRule</a>	Grants permission to create a receipt rule	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateReceiptRuleSet</a>	Grants permission to create an empty receipt rule set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateTemplate</a>	Grants permission to creates an email template	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteConfigurationSet</a>	Grants permission to delete an existing configuration set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteConfigurationSetEventDestination</a>	Grants permission to delete an event destination	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteConfigurationSetTrackingOptions</a>	Grants permission to delete an association between a configuration set and a custom domain for open and click event tracking	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteCustomVerificationEmailTemplate</a>	Grants permission to delete an existing custom verification email template	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteIdentity</a>	Grants permission to delete the specified identity	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteIdentityPolicy</a>	Grants permission to delete the specified sending authorization policy for the given identity (an email address or a domain)	Permissions management		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteReceiptFilter</a>	Grants permission to delete the specified IP address filter	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteReceiptRule</a>	Grants permission to delete the specified receipt rule	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteReceiptRuleSet</a>	Grants permission to delete the specified receipt rule set and all of the receipt rules it contains	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteTemplate</a>	Grants permission to delete an email template	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVerifiedEmailAddress</a>	Grants permission to delete the specified email address from the list of verified addresses	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DescribeActiveReceiptRuleSet</a>	Grants permission to return the metadata and receipt rules for the receipt rule set that is currently active	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">DescribeConfigurationSet</a>	Grants permission to return the details of the specified configuration set	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">DescribeReceiptRule</a>	Grants permission to return the details of the specified receipt rule	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">DescribeReceiptRuleSet</a>	Grants permission to return the details of the specified receipt rule set	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetAccountSendingEnabled</a>	Grants permission to return the email sending status of your account	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetCustomVerificationEmailTemplate</a>	Grants permission to return the custom email verification template for the template name you specify	Read		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdentityDkimAttributes</a>	Grants permission to return the current status of Easy DKIM signing for an entity	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetIdentityMailFromDomainAttributes</a>	Grants permission to return the custom MAIL FROM attributes for a list of identities (email addresses and/or domains)	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetIdentityNotificationAttributes</a>	Grants permission to return a structure describing identity notification attributes for a list of verified identities (email addresses and/or domains),	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetIdentityPolicies</a>	Grants permission to return the requested sending authorization policies for the given identity (an email address or a domain)	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetIdentityVerificationAttributes</a>	Grants permission to return the verification status and (for domain identities) the verification token for a list of identities	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetSendQuota</a>	Grants permission to return the user's current sending limits	Read		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSendStatistics</a>	Grants permission to return the user's sending statistics	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetTemplate</a>	Grants permission to return the template object, which includes the subject line, HTML part, and text part for the template you specify	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">ListConfigurationSets</a>	Grants permission to list all of the configuration sets for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListCustomVerificationEmailTemplates</a>	Grants permission to list all of the existing custom verification email templates for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListIdentities</a>	Grants permission to list the email identities for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListIdentityPolicies</a>	Grants permission to list all of the email templates for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListReceiptFilters</a>	Grants permission to list the IP address filters associated with your account	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">ListReceiptRuleSets</a>	Grants permission to list the receipt rule sets that exist under your account	Read		<a href="#">ses:ApiVersion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTemplates</a>	Grants permission to list the email templates present in your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListVerifiedEmailAddresses</a>	Grants permission to list all of the email addresses that have been verified in your account	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">PutConfigurationSetDeliveryOptions</a>	Grants permission to add or update the delivery options for a configuration set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutIdentityPolicy</a>	Grants permission to add or update a sending authorization policy for the specified identity (an email address or a domain)	Permissions management		<a href="#">ses:ApiVersion</a>	
<a href="#">ReorderReceiptRuleSet</a>	Grants permission to reorder the receipt rules within a receipt rule set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">SendBounce</a>	Grants permission to generate and send a bounce message to the sender of an email you received through Amazon SES	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">ses:FromAddress</a>	
<a href="#">SendBulkTemplatedEmail</a>	Grants permission to compose an email message to multiple destinations	Write	<a href="#">identity*</a> <a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">configuration-set</a>	<a href="#">ses:ApiVersion</a> <a href="#">ses:FeedbackAddresses</a> <a href="#">ses:FromAddress</a> <a href="#">ses:FromDisplayName</a> <a href="#">ses:Recipients</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendCustomVerificationEmail</a>	Grants permission to add an email address to the list of identities and attempts to verify it for your account	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">ses:FeedbackAddresses</a> <a href="#">ses:FromAddress</a> <a href="#">ses:FromDisplayName</a> <a href="#">ses:Recipients</a>	
<a href="#">SendEmail</a>	Grants permission to send an email message	Write	<a href="#">identity*</a> <a href="#">configuration-set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">ses:FeedbackAddresses</a> <a href="#">ses:FromAddress</a> <a href="#">ses:FromDisplayName</a> <a href="#">ses:Recipients</a>	
<a href="#">SendRawEmail</a>	Grants permission to send an email message, with header and content specified by the client	Write	<a href="#">identity*</a> <a href="#">configuration-set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">ses:FeedbackAddresses</a> <a href="#">ses:FromAddress</a> <a href="#">ses:FromDisplayName</a> <a href="#">ses:Recipients</a>	
<a href="#">SendTemplatedEmail</a>	Grants permission to compose an email message using an email template	Write	<a href="#">identity*</a> <a href="#">template*</a> <a href="#">configuration-set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">ses:FeedbackAddresses</a> <a href="#">ses:FromAddress</a> <a href="#">ses:FromDisplayName</a> <a href="#">ses:Recipients</a>	
<a href="#">SetActiveReceiptRuleSet</a>	Grants permission to set the specified receipt rule set as the active receipt rule set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">SetIdentityDkimEnabled</a>	Grants permission to enable or disable Easy DKIM signing of email sent from an identity	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">SetIdentityFeedbackForwardingEnabled</a>	Grants permission to enable or disable whether Amazon SES forwards bounce and complaint notifications for an identity (an email address or a domain)	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetIdentityHeadersInNotificationsEnabled</a>	Grants permission to set whether Amazon SES includes the original email headers in the Amazon Simple Notification Service (Amazon SNS) notifications of a specified type for a given identity (an email address or a domain)	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">SetIdentityMailFromDomain</a>	Grants permission to enable or disable the custom MAIL FROM domain setup for a verified identity	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">SetIdentityNotificationTopic</a>	Grants permission to set an Amazon Simple Notification Service (Amazon SNS) topic to use when delivering notifications for a verified identity	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">SetReceiptRulePosition</a>	Grants permission to set the position of the specified receipt rule in the receipt rule set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">TestRenderTemplate</a>	Grants permission to create a preview of the MIME content of an email when provided with a template and a set of replacement data	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAccountSendingEnabled</a>	Grants permission to enable or disable email sending for your account	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">UpdateConfigurationSetEventDestination</a>	Grants permission to update the event destination of a configuration set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">UpdateConfigurationSetReputationMetricsEnabled</a>	Grants permission to enable or disable the publishing of reputation metrics for emails sent using a specific configuration set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">UpdateConfigurationSetSendingEnabled</a>	Grants permission to enable or disable email sending for messages sent using a specific configuration set	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">UpdateConfigurationSetTrackingOptions</a>	Grants permission to modify an association between a configuration set and a custom domain for open and click event tracking	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">UpdateCustomVerificationEmailTemplate</a>	Grants permission to update an existing custom verification email template	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">UpdateReceiptRule</a>	Grants permission to update a receipt rule	Write		<a href="#">ses:ApiVersion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTemplate</a>	Grants permission to update an email template	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">VerifyDomainDkim</a>	Grants permission to return a set of DKIM tokens for a domain	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">VerifyDomainIdentity</a>	Grants permission to verify a domain	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">VerifyEmailAddress</a>	Grants permission to verify an email address	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">VerifyEmailIdentity</a>	Grants permission to verify an email identity	Write		<a href="#">ses:ApiVersion</a>	

## Resource types defined by Amazon SES

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">configuration-set</a>	arn:\${Partition}:ses:\${Region}:\${Account}:configuration-set/\${ConfigurationSetName}	

Resource types	ARN	Condition keys
<a href="#">custom-verification-email-template</a>	arn:\${Partition}:ses:\${Region}:\${Account}:custom-verification-email-template/\${TemplateName}	
<a href="#">identity</a>	arn:\${Partition}:ses:\${Region}:\${Account}:identity/\${IdentityName}	
<a href="#">template</a>	arn:\${Partition}:ses:\${Region}:\${Account}:template/\${TemplateName}	

## Condition keys for Amazon SES

Amazon SES defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">ses:ApiVersion</a>	Filters actions based on the SES API version	String
<a href="#">ses:FeedbackAddress</a>	Filters actions based on the "Return-Path" address, which specifies where bounces and complaints are sent by email feedback forwarding	String
<a href="#">ses:FromAddress</a>	Filters actions based on the "From" address of a message	String
<a href="#">ses:FromDisplayName</a>	Filters actions based on the "From" address that is used as the display name of a message	String

Condition keys	Description	Type
<a href="#">ses:Recipients</a>	Filters actions based on the recipient addresses of a message, which include the "To", "CC", and "BCC" addresses	ArrayOfString

## Actions, resources, and condition keys for AWS Shield

AWS Shield (service prefix: `shield`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Shield](#)
- [Resource types defined by AWS Shield](#)
- [Condition keys for AWS Shield](#)

## Actions defined by AWS Shield

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate DRTLogBucket</a>	Grants permission to authorize the DDoS Response team to access the specified Amazon S3 bucket containing your flow logs	Write			s3:GetBucketPolicy s3:PutBucketPolicy
<a href="#">Associate DRTRole</a>	Grants permission to authorize the DDoS Response team using the specified role, to access your AWS account to assist with DDoS attack mitigation during potential attacks	Write			iam:GetRole iam:ListAttachedRolePolicies iam:PassRole
<a href="#">Associate HealthCheck</a>	Grants permission to add health-based detection to the Shield Advanced protection for a resource	Write	<a href="#">protectio</a> <a href="#">n*</a>		route53:G etHealthC heck
				<a href="#">aws:Resou</a> <a href="#">rceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">Associate Proactive EngagementDetails</a>	Grants permission to initialize proactive engagement and set the list of contacts for the DDoS Response Team (DRT) to use	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProtection</a>	Grants permission to activate DDoS protection service for a given resource ARN	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateProtectionGroup</a>	Grants permission to create a grouping of protected resources so they can be handled as a collective	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSubscription</a>	Grants permission to activate subscription	Write			
<a href="#">DeleteProtection</a>	Grants permission to delete an existing protection	Write	<a href="#">protection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteProtectionGroup</a>	Grants permission to remove the specified protection group	Write	<a href="#">protection-group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSubscription</a>	Grants permission to deactivate subscription	Write			
<a href="#">DescribeAttack</a>	Grants permission to get attack details	Read	<a href="#">attack*</a>		
<a href="#">DescribeAttackContributors</a> [permission only]	Grants permission to get detailed information about the contributors to a specific DDoS attack	Read	<a href="#">attack*</a>  <a href="#">protection-group</a>		
<a href="#">DescribeAttackStatistics</a>	Grants permission to describe information about the number and type of attacks AWS Shield has detected in the last year	Read			
<a href="#">DescribeDRTAccess</a>	Grants permission to describe the current role and list of Amazon S3 log buckets used by the DDoS Response team to access your AWS account while assisting with attack mitigation	Read			
<a href="#">DescribeEmergencyContactSettings</a>	Grants permission to list the email addresses that the DRT can use to contact you during a suspected attack	Read			
<a href="#">DescribeProtection</a>	Grants permission to get protection details	Read	<a href="#">protection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeProtectionGroup</a>	Grants permission to describe the specification for the specified protection group	Read	<a href="#">protection-group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeSubscription</a>	Grants permission to get subscription details, such as start time	Read			
<a href="#">DisableApplicationLayerAutomaticResponse</a>	Grants permission to disable application layer automatic response for Shield Advanced protection for a resource	Write			
<a href="#">DisableProactiveEngagement</a>	Grants permission to remove authorization from the DDoS Response Team (DRT) to notify contacts about escalations	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateDRTLogBucket</a>	Grants permission to remove the DDoS Response team's access to the specified Amazon S3 bucket containing your flow logs	Write			s3:DeleteBucketPolicy s3:GetBucketPolicy s3:PutBucketPolicy
<a href="#">DisassociateDRTRole</a>	Grants permission to remove the DDoS Response team's access to your AWS account	Write			
<a href="#">DisassociateHealthCheck</a>	Grants permission to remove health-based detection from the Shield Advanced protection for a resource	Write	<a href="#">protection*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableApplicationLayerAutomaticResponse</a>	Grants permission to enable application layer automatic response for Shield Advanced protection for a resource	Write			apprunner:DescribeWebAclForService  cloudfront:GetDistribution  cognito-idp:GetWebACLForResource  ec2:GetVerifiedAccessInstanceWebAcl  iam:CreateServiceLinkedRole  iam:GetRole  wafv2:GetWebACL  wafv2:GetWebACLForResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">EnableProactiveEngagement</a>	Grants permission to authorize the DDoS Response Team (DRT) to use email and phone to notify contacts about escalations	Write			
<a href="#">GetGlobalThreatData</a> [permission only]	Grants permission to retrieve global threat intelligence data and trends from AWS Shield's threat monitoring systems	Read			
<a href="#">GetSubscriptionState</a>	Grants permission to get subscription state	Read			
<a href="#">ListAttacks</a>	Grants permission to list all existing attacks	List			
<a href="#">ListMitigations</a> [permission only]	Grants permission to retrieve a list of mitigation actions that have been applied during DDoS attacks	List	<a href="#">attack*</a>		
<a href="#">ListProtectionGroups</a>	Grants permission to retrieve the protection groups for the account	List			
<a href="#">ListProtections</a>	Grants permission to list all existing protections	List			
<a href="#">ListResourcesInProtectionGroup</a>	Grants permission to retrieve the resources that are included in the protection group	List	<a href="#">protection-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to get information about AWS tags for a specified Amazon Resource Name (ARN) in AWS Shield	Read	<a href="#">protectio n</a>		
			<a href="#">protectio n-group</a>		
<a href="#">TagResource</a>	Grants permission to add or updates tags for a resource in AWS Shield	Tagging	<a href="#">protectio n</a>		
			<a href="#">protectio n-group</a>		
				<a href="#">aws:Reque stTag/ \${T agKey}</a>	
			<a href="#">aws:TagKe ys</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource in AWS Shield	Tagging	<a href="#">protectio n</a>		
			<a href="#">protectio n-group</a>		
				<a href="#">aws:TagKe ys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateApplicationLayerAutomaticResponse</a>	Grants permission to update application layer automatic response for Shield Advanced protection for a resource	Write			apprunner:DescribeWebAclForService  cognito-idp:GetWebACLForResource  ec2:GetVerifiedAccessInstanceWebAcl  wafv2:GetWebACL  wafv2:GetWebACLForResource
<a href="#">UpdateEmergencyContactSettings</a>	Grants permission to update the details of the list of email addresses that the DRT can use to contact you during a suspected attack	Write			
<a href="#">UpdateProtectionGroup</a>	Grants permission to update an existing protection group	Write	<a href="#">protection-group*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateSubscription</a>	Grants permission to update the details of an existing subscription	Write			

## Resource types defined by AWS Shield

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">attack</a>	arn:\${Partition}:shield::\${Account}:attack/\${Id}	
<a href="#">protection</a>	arn:\${Partition}:shield::\${Account}:protection/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">protection-group</a>	arn:\${Partition}:shield::\${Account}:protection-group/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Shield

AWS Shield defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Shield network security director

AWS Shield network security director (service prefix: `network-security-director`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Shield network security director](#)

- [Resource types defined by AWS Shield network security director](#)
- [Condition keys for AWS Shield network security director](#)

## Actions defined by AWS Shield network security director

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.



**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetFinding</a>	Grants permission to get a finding	Read			
<a href="#">GetResource</a>	Grants permission to get a resource	Read			
<a href="#">ListAccountSummaries</a>	Grants permission to list account summaries for an account	List			
<a href="#">ListFindings</a>	Grants permission to list findings	List			
<a href="#">ListInsights</a>	Grants permission to list insights about the latest network security scan	List			
<a href="#">ListRemediations</a>	Grants permission to list remediations for a finding	List			
<a href="#">ListResources</a>	Grants permission to list resources	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFinding</a>	Grants permission to update the status of a finding	Write			

## Resource types defined by AWS Shield network security director

AWS Shield network security director does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Shield network security director, specify "Resource": "\*" in your policy.

## Condition keys for AWS Shield network security director

Network Security Director has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Signer

AWS Signer (service prefix: signer) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Signer](#)
- [Resource types defined by AWS Signer](#)
- [Condition keys for AWS Signer](#)

## Actions defined by AWS Signer

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddProfilePermission</a>	Grants permission to add cross-account permissions to a Signing Profile	Permissions management	<a href="#">signing-profile*</a>		
<a href="#">CancelSigningProfile</a>	Grants permission to change the state of a Signing Profile to CANCELED	Write	<a href="#">signing-profile*</a>	<a href="#">signer:ProfileVersion</a>	
<a href="#">DescribeSigningJob</a>	Grants permission to return information about a specific Signing Job	Read	<a href="#">signing-job*</a>		
<a href="#">GetRevocationStatus</a>	Grants permission to query revocation info of signing resources	Read	<a href="#">signing-job*</a> <a href="#">signing-profile*</a>		
<a href="#">GetSigningPlatform</a>	Grants permission to return information about a specific Signing Platform	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSigningProfile</a>	Grants permission to return information about a specific Signing Profile	Read	<a href="#">signing-profile*</a>	<a href="#">signer:ProfileVersion</a>	
<a href="#">ListProfilePermissions</a>	Grants permission to list the cross-account permissions associated with a Signing Profile	Read	<a href="#">signing-profile*</a>		
<a href="#">ListSigningJobs</a>	Grants permission to list all Signing Jobs in your account	List			
<a href="#">ListSigningPlatforms</a>	Grants permission to list all available Signing Platforms	List			
<a href="#">ListSigningProfiles</a>	Grants permission to list all Signing Profiles in your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags associated with a Signing Profile	Read	<a href="#">signing-profile*</a>		
<a href="#">PutSigningProfile</a>	Grants permission to create a new Signing Profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveProfilePermission</a>	Grants permission to remove cross-account permissions from a Signing Profile	Permissions management	<a href="#">signing-profile*</a>		
<a href="#">RevokeSigningJob</a>	Grants permission to change the state of a Signing Job to REVOKED	Write	<a href="#">signing-job*</a>		
				<a href="#">signer:ProfileVersion</a>	
<a href="#">RevokeSigningProfile</a>	Grants permission to change the state of a Signing Profile to REVOKED	Write	<a href="#">signing-profile*</a>		
				<a href="#">signer:ProfileVersion</a>	
<a href="#">SignPayload</a>	Grants permission to initiate a Signing Job on the provided payload	Write	<a href="#">signing-profile*</a>		
				<a href="#">signer:ProfileVersion</a>	
<a href="#">StartSigningJob</a>	Grants permission to initiate a Signing Job on the provided code	Write	<a href="#">signing-profile*</a>		
				<a href="#">signer:ProfileVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to add one or more tags to a Signing Profile	Tagging	<a href="#">signing-profile*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a Signing Profile	Tagging	<a href="#">signing-profile*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

## Resource types defined by AWS Signer

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">signing-profile</a>	arn:\${Partition}:signer:\${Region}:\${Account}:/signing-profiles/\${Profile Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">signing-job</a>	arn:\${Partition}:signer:\${Region}:\${Account}:/signing-jobs/\${JobId}	

## Condition keys for AWS Signer

AWS Signer defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by presence of mandatory tags in the request	ArrayOfString
<a href="#">signer:ProfileVersion</a>	Filters access by version of the Signing Profile	String



## Actions, resources, and condition keys for AWS Signin

AWS Signin (service prefix: `signin`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Signin](#)
- [Resource types defined by AWS Signin](#)
- [Condition keys for AWS Signin](#)

### Actions defined by AWS Signin

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Authorize OAuth2Access</a>	Grants permission to authenticate through a browser and obtain an OAuth 2.0 authorization code for credential exchange	Read	<a href="#">oauth2-public-client-localhost*</a>		
			<a href="#">oauth2-public-client-remote*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOAuth2Token</a>	Grants permission to exchange an authorization code for OAuth 2.0 access token and refresh token that can be used to access AWS services from developer tools and applications	Read	<a href="#">oauth2-public-client-localhost*</a> <a href="#">oauth2-public-client-remote*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrustedIdentityPropagationApplicationForConsole</a>	Grants permission to create an Identity Center application that represents the AWS Management Console on an Identity Center organization instance	Write			sso:CreateApplication sso:GetSharedSsoConfiguration sso:ListApplications sso:PutApplicationAccessScope sso:PutApplicationAssignmentConfiguration sso:PutApplicationAuthenticationMethod sso:PutApplicationGrant

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrustedIdentityPropagationApplicationsForConsole</a>	Grants permission to list all Identity Center applications that represent the AWS Management Console	List			sso:GetSharedSsoConfiguration  sso:ListApplications

## Resource types defined by AWS Signin

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">oauth2-public-client-localhost</a>	arn:\${Partition}:signin:\${Region}:\${Account}:oauth2/public-client/localhost	
<a href="#">oauth2-public-client-remote</a>	arn:\${Partition}:signin:\${Region}:\${Account}:oauth2/public-client/remote	

## Condition keys for AWS Signin

Signin has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Simple Email Service - Mail Manager

Amazon Simple Email Service - Mail Manager (service prefix: `ses`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Simple Email Service - Mail Manager](#)
- [Resource types defined by Amazon Simple Email Service - Mail Manager](#)
- [Condition keys for Amazon Simple Email Service - Mail Manager](#)

## Actions defined by Amazon Simple Email Service - Mail Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for Mail Manager resources	Permissions management	<a href="#">mailmanager-ingress-points</a> <a href="#">mailmanager-rulesets</a>		
<a href="#">CreateAddonInstance</a>	Grants permission to create an addon instance	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ses:AddonSubscriptionArn</a>	
<a href="#">CreateAddonSubscription</a>	Grants permission to create an addon subscription	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAddressList</a>	Grants permission to create an address list	Write		<a href="#">aws:RequestTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateAddressListImportJob</a>	Grants permission to create an import job on an address list	Write	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateArchive</a>	Grants permission to create an archive	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIngressPoint</a>	Grants permission to create an ingress point	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ses:MailManagerRuleSetArn</a> <a href="#">ses:MailManagerTrafficPolicyArn</a>	ec2:DescribeVpcEndpoints  iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRelay</a>	Grants permission to create a SMTP relay	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRuleSet</a>	Grants permission to create a rule set	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTrafficPolicy</a>	Grants permission to create a traffic policy	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAddonInstance</a>	Grants permission to delete an addon instance	Write	<a href="#">addon-instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAddonSubscription</a>	Grants permission to delete an addon subscription	Write	<a href="#">addon-subscription*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteAddressList</a>	Grants permission to delete an address list	Write	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteArchive</a>	Grants permission to delete an archive	Write	<a href="#">mailmanager-archive*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteIngressPoint</a>	Grants permission to delete an ingress point	Write	<a href="#">mailmanager-ingress-point*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRelay</a>	Grants permission to delete a SMTP relay	Write	<a href="#">mailmanager-smtp-relay*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteRuleSet</a>	Grants permission to delete a rule set	Write	<a href="#">mailmanager-rule-set*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteTrafficPolicy</a>	Grants permission to delete a traffic point	Write	<a href="#">mailmanager-traffic-policy*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeregisterMemberFromAddressList</a>	Grants permission to remove a member from an address list	Write	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAddonInstance</a>	Grants permission to get information about an addon instance	Read	<a href="#">addon-instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetAddonSubscription</a>	Grants permission to get information about an addon subscription	Read	<a href="#">addon-subscription*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetAddressesList</a>	Grants permission to get information about an address list	Read	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAddressesListImportJob</a>	Grants permission to get information about an import job on an address list	Read	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetArchive</a>	Grants permission to get information about an archive	Read	<a href="#">mailmanager-archive*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetArchiveExport</a>	Grants permission to get information about an archive export	Read	<a href="#">mailmanager-archive*</a>		
<a href="#">GetArchiveMessage</a>	Grants permission to retrieve archived message	Read	<a href="#">mailmanager-archive*</a>		
<a href="#">GetArchiveMessageContent</a>	Grants permission to retrieve archived message content	Read	<a href="#">mailmanager-archive*</a>		
<a href="#">GetArchiveSearch</a>	Grants permission to get information about a search	Read	<a href="#">mailmanager-archive*</a>		
<a href="#">GetArchiveSearchResults</a>	Grants permission to get information about search results	Read	<a href="#">mailmanager-archive*</a>		
<a href="#">GetIngressPoint</a>	Grants permission to get information about an ingress point	Read	<a href="#">mailmanager-ingress-point*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMemberOfAddressList</a>	Grants permission to get information about a member in an address list	Read	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetRelay</a>	Grants permission to get information about a SMTP relay	Read	<a href="#">mailmanager-smtp-relay*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetRuleSet</a>	Grants permission to get information about a rule set	Read	<a href="#">mailmanager-rule-set*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">GetTrafficPolicy</a>	Grants permission to get information about a traffic policy	Read	<a href="#">mailmanager-traffic-policy*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAddonInstances</a>	Grants permission to list all of the addon instances associated with your account	List			
<a href="#">ListAddonSubscriptions</a>	Grants permission to list all of the addon subscriptions associated with your account	List			
<a href="#">ListAddressListImportJobs</a>	Grants permission to list all of the import jobs associated with an address list	List	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAddressLists</a>	Grants permission to list all of the address lists associated with your account	List			
<a href="#">ListArchiveExports</a>	Grants permission to list all of the archive exports associated with your account	List			
<a href="#">ListArchiveSearches</a>	Grants permission to list all of the archive searches associated with your account	List			
<a href="#">ListArchives</a>	Grants permission to list all of the archives associated with your account	List			
<a href="#">ListIngressPoints</a>	Grants permission to list all of the ingress points associated with your account	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMembersOfAddressList</a>	Grants permission to list all of the members associated with an address list	List	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListRelays</a>	Grants permission to list all of the SMTP relays associated with your account	List			
<a href="#">ListRuleSets</a>	Grants permission to list all of the rule sets associated with your account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list all of the tags associated with the resource	Read	<a href="#">addon-instance</a>		
			<a href="#">addon-subscription</a>		
			<a href="#">mailmanager-archive</a>		
			<a href="#">mailmanager-ingress-point</a>		
			<a href="#">mailmanager-rule-set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mailmanager-smtp-relay</a>		
			<a href="#">mailmanager-traffic-policy</a>		
<a href="#">ListTrafficPolicies</a>	Grants permission to list all of the traffic policies associated with your account	List			
<a href="#">RegisterMemberToAddressList</a>	Grants permission to add a member to an address list	Write	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartAddressListImportJob</a>	Grants permission to start an import job on an address list	Write	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartArchiveExport</a>	Grants permission to start an archive export	Write	<a href="#">mailmanager-archive*</a>		
<a href="#">StartArchiveSearch</a>	Grants permission to start an archive search	Write	<a href="#">mailmanager-archive*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopAddressListImportJob</a>	Grants permission to stop an ongoing import job on an address list	Write	<a href="#">mailmanager-address-list*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StopArchiveExport</a>	Grants permission to stop archive export	Write	<a href="#">mailmanager-archive*</a>		
<a href="#">StopArchiveSearch</a>	Grants permission to stop archive search	Write	<a href="#">mailmanager-archive*</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tags (keys and values) to a specified resource	Tagging	<a href="#">addon-instance</a>		
			<a href="#">addon-subscription</a>		
			<a href="#">mailmanager-address-list</a>		
			<a href="#">mailmanager-archive</a>		
			<a href="#">mailmanager-ingress-point</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mailmanager-rule-set</a>		
			<a href="#">mailmanager-smtp-relay</a>		
			<a href="#">mailmanager-traffic-policy</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags (keys and values) from a specified resource	Tagging	<a href="#">addon-instance</a>		
			<a href="#">addon-subscription</a>		
			<a href="#">mailmanager-address-list</a>		
			<a href="#">mailmanager-archive</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">mailmanager-ingress-point</a>		
			<a href="#">mailmanager-rule-set</a>		
			<a href="#">mailmanager-smtp-relay</a>		
			<a href="#">mailmanager-traffic-policy</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateArchive</a>	Grants permission to update an archive	Write	<a href="#">mailmanager-archive*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateIngressPoint</a>	Grants permission to update an ingress point	Write	<a href="#">mailmanager-ingress-point*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">ses:MailManagerTrafficPolicyArn</a>  <a href="#">ses:MailManagerRuleSetArn</a>	
<a href="#">UpdateRelay</a>	Grants permission to update a SMTP relay	Write	<a href="#">mailmanager-smtp-relay*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateRuleSet</a>	Grants permission to update a rule set	Write	<a href="#">mailmanager-rule-set*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateTrafficPolicy</a>	Grants permission to update a traffic policy	Write	<a href="#">mailmanager-traffic-policy*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Simple Email Service - Mail Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">addon-instance</a>	arn:\${Partition}:ses:\${Region}:\${Account}:addon-instance/\${AddonInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">addon-subscription</a>	arn:\${Partition}:ses:\${Region}:\${Account}:addon-subscription/\${AddonSubscriptionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mailmanager-archive</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-archive/\${ArchiveId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">mailmanager-ingress-point</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-ingress-point/\${IngressPointId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ses:MailManagerIngressPointType</a>
<a href="#">mailmanager-smtp-relay</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-smtp-relay/\${RelayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mailmanager-rule-set</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-rule-set/\${RuleSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mailmanager-traffic-policy</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-traffic-policy/\${TrafficPolicyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">mailmanager-address-list</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-address-list/\${AddressListId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Simple Email Service - Mail Manager

Amazon Simple Email Service - Mail Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).



Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">ses:AddonSubscriptionArn</a>	Filters access by SES Addon Subscription ARN	ARN
<a href="#">ses:MailManagerIngressPointType</a>	Filters access by SES Mail Manager ingress point type, for example OPEN or AUTH	String
<a href="#">ses:MailManagerRuleSetArn</a>	Filters access by SES Mail Manager rule set ARN	ARN
<a href="#">ses:MailManagerTrafficPolicyArn</a>	Filters access by SES Mail Manager traffic policy ARN	ARN

## Actions, resources, and condition keys for Amazon Simple Email Service v2

Amazon Simple Email Service v2 (service prefix: ses) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Simple Email Service v2](#)
- [Resource types defined by Amazon Simple Email Service v2](#)
- [Condition keys for Amazon Simple Email Service v2](#)

## Actions defined by Amazon Simple Email Service v2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetMetricData</a>	Grants permission to get metric data on your activity	Read	<a href="#">configuration-set</a>		
			<a href="#">identity</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CancelExportJob</a>	Grants permission to cancel an export job	Write	<a href="#">export-job*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">ses:ExportSourceType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfigurationSet</a>	Grants permission to create a new configuration set	Write	<a href="#">configuration-set*</a>		
			<a href="#">dedicated-ip-pool</a>		
			<a href="#">mailmanager-archive</a>		
				<a href="#">ses:ApiVersion</a>	
			<a href="#">aws:TagKeys</a>		
			<a href="#">aws:RequestTag/\${TagKey}</a>		
<a href="#">CreateConfigurationSetEventDestination</a>	Grants permission to create a configuration set event destination	Write	<a href="#">configuration-set*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateContact</a>	Grants permission to create a contact	Write	<a href="#">contact-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateContactList</a>	Grants permission to create a contact list	Write	<a href="#">contact-list*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateCustomVerificationEmailTemplate</a>	Grants permission to create a new custom verification email template	Write	<a href="#">custom-verification-email-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateDedicatedIpPool</a>	Grants permission to create a new pool of dedicated IP addresses	Write	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateDeliverabilityTestReport</a>	Grants permission to create a new predictive inbox placement test	Write	<a href="#">identity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateEmailIdentity</a>	Grants permission to start the process of verifying an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateEmailIdentityPolicy</a>	Grants permission to create the specified sending authorization policy for the given identity	Permissions management	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEmailTemplate</a>	Grants permission to create an email template	Write	<a href="#">template*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateExportJob</a>	Grants permission to create an export job	Write		<a href="#">ses:ApiVersion</a> <a href="#">ses:ExportSourceType</a>	
<a href="#">CreateImportJob</a>	Grants permission to create an import job for a data destination	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">CreateMultiRegionEndpoint</a>	Grants permission to create a new multi-region endpoint	Write		<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTenant</a>	Grants permission to create a new tenant	Write	<a href="#">tenant*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateTenantResourceAssociation</a>	Grants permission to associate a SES resource to a tenant	Write	<a href="#">configuration-set*</a> <a href="#">identity*</a> <a href="#">template*</a> <a href="#">tenant*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteConfigurationSet</a>	Grants permission to delete an existing configuration set	Write	<a href="#">configuration-set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteConfigurationSetEventDestination</a>	Grants permission to delete an event destination	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteContact</a>	Grants permission to delete a contact from a contact list	Write	<a href="#">contact-list*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteContactList</a>	Grants permission to delete a contact list with all of its contacts	Write	<a href="#">contact-list*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteCustomVerificationEmailTemplate</a>	Grants permission to delete an existing custom verification email template	Write	<a href="#">custom-verification-email-template*</a>		
<a href="#">DeleteDedicatedIpPool</a>	Grants permission to delete a dedicated IP pool	Write	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEmailIdentity</a>	Grants permission to delete an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEmailIdentityPolicy</a>	Grants permission to delete the specified sending authorization policy for the given identity (an email address or a domain)	Permissions management	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEmailTemplate</a>	Grants permission to delete an email template	Write	<a href="#">template*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteMultiRegionEndpoint</a>	Grants permission to delete a multi-region endpoint	Write	<a href="#">multi-region-endpoint*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteSuppressedDestination</a>	Grants permission to remove an email address from the suppression list for your account	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">DeleteTenant</a>	Grants permission to delete a tenant	Write	<a href="#">tenant*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTenantResourceAssociation</a>	Grants permission to remove an associated SES resource from a tenant	Write	<a href="#">configuration-set*</a>		
			<a href="#">identity*</a>		
			<a href="#">template*</a>		
			<a href="#">tenant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccount</a>	Grants permission to get information about the email-sending status and capabilities for your account	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetBlacklistReports</a>	Grants permission to retrieve a list of the deny lists on which your dedicated IP addresses or tracked domains appear	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetConfigurationSet</a>	Grants permission to get information about an existing configuration set	Read	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetConfigurationSetEventDestinations</a>	Grants permission to retrieve a list of event destinations that are associated with a configuration set	Read	<a href="#">configuration-set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetContact</a>	Grants permission to return a contact from a contact list	Read	<a href="#">contact-list*</a>		
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetContactList</a>	Grants permission to return contact list metadata	Read	<a href="#">contact-list*</a>		
				<a href="#">ses:ApiVersion</a>	
<a href="#">GetCustomVerificationEmailTemplate</a>	Grants permission to return the custom email verification template for the template name you specify	Read	<a href="#">custom-verification-email-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDedicatedIp</a>	Grants permission to get information about a dedicated IP address	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetDedicatedIpPool</a>	Grants permission to get information about a dedicated IP pool	Read	<a href="#">dedicated-ip-pool*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDedicatedIps</a>	Grants permission to list the dedicated IP addresses a dedicated IP pool	Read	<a href="#">dedicated-ip-pool*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDeliverabilityDashboardOptions</a>	Grants permission to get the status of the Deliverability dashboard	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetDeliverabilityTestReport</a>	Grants permission to retrieve the results of a predictive inbox placement test	Read	<a href="#">deliverability-test-report*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDomainDeliverabilityCampaign</a>	Grants permission to retrieve all the deliverability data for a specific campaign	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetDomainStatisticsReport</a>	Grants permission to retrieve inbox placement and engagement rates for the domains that you use to send email	Read	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEmailAddressInsights</a>	Grants permission to get insights about email address	Read		<a href="#">ses:ApiVersion</a>	iam:CreateServiceLinkedRole
<a href="#">GetEmailIdentity</a>	Grants permission to get information about a specific identity	Read	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a>	
<a href="#">GetEmailIdentityPolicies</a>	Grants permission to return the requested sending authorization policies for the given identity (an email address or a domain)	Read	<a href="#">identity*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEmailTemplate</a>	Grants permission to return the template object, which includes the subject line, HTML part, and text part for the template you specify	Read	<a href="#">template*</a>	<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExportJob</a>	Grants permission to get information about an export job	Read	<a href="#">export-job*</a>	<a href="#">ses:ApiVersion</a> <a href="#">ses:ExportSourceType</a>	
<a href="#">GetImportJob</a>	Grants permission to provide information about an import job	Read	<a href="#">import-job*</a>	<a href="#">ses:ApiVersion</a>	
<a href="#">GetMessageInsights</a>	Grants permission to provide insights about a message	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetMultiRegionEndpoint</a>	Grants permission to get information about a multi-region endpoint	Read	<a href="#">multi-region-endpoint*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetReputationEntity</a>		Read	<a href="#">tenant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to retrieve information about a reputation entity's status			<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSuppressedDestination</a>	Grants permission to retrieve information about a specific email address that's on the suppression list for your account	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">GetTenant</a>	Grants permission to get information about a tenant	Read	<a href="#">tenant*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListConfigurationSets</a>	Grants permission to list all of the configuration sets for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListContactLists</a>	Grants permission to list all of the contact lists available for your account	List		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListContacts</a>	Grants permission to list the contacts present in a specific contact list	List	<a href="#">contact-list*</a>	<a href="#">ses:ApiVersion</a>	
<a href="#">ListCustomVerificationEmailTemplates</a>	Grants permission to list all of the existing custom verification email templates for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListDedicatedIpPools</a>	Grants permission to list all of the dedicated IP pools for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListDeliverabilityTestReports</a>	Grants permission to retrieve the list of the predictive inbox placement tests that you've performed, regardless of their statuses, for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListDomainDeliverabilityCampaigns</a>	Grants permission to list deliverability data for campaigns that used a specific domain to send email during a specified time range	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">ListEmailIdentities</a>	Grants permission to list the email identities for your account	List		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEmailTemplates</a>	Grants permission to list all of the email templates for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListExportJobs</a>	Grants permission to list all the exports jobs for your account	List		<a href="#">ses:ApiVersion</a> <a href="#">ses:ExportSourceType</a>	
<a href="#">ListImportJobs</a>	Grants permission to list all of the import jobs for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListMultiRegionEndpoints</a>	Grants permission to list all of the multi-region endpoints for your account	List		<a href="#">ses:ApiVersion</a>	
<a href="#">ListRecommendations</a>	Grants permission to list recommendations for your account	Read	<a href="#">identity</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListReputationEntities</a>	Grants permission to retrieve a list of reputation entities	List	<a href="#">tenant*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListResourceTenants</a>	Grants permission to list all the tenants associated to a SES resource	List	<a href="#">configuration-set*</a>		
			<a href="#">identity*</a>		
			<a href="#">template*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListSuppressedDestinations</a>	Grants permission to list email addresses that are on the suppression list for your account	Read		<a href="#">ses:ApiVersion</a>	
<a href="#">ListTagsForResource</a>	Grants permission to retrieve a list of the tags (keys and values) that are associated with a specific resource for your account	Read	<a href="#">configuration-set</a>		
			<a href="#">contact-list</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">custom-verification-email-template</a>		
			<a href="#">dedicated-ip-pool</a>		
			<a href="#">deliverability-test-report</a>		
			<a href="#">identity</a>		
			<a href="#">template</a>		
			<a href="#">tenant</a>		
				<a href="#">ses:ApiVersion</a>	
<a href="#">ListTenantResources</a>	Grants permission to list all the resources associated to a tenant	List	<a href="#">tenant*</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTenants</a>	Grants permission to list all the tenants for your account	List		<a href="#">ses:ApiVersion</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutAccountDedicatedWarmupAttributes</a>	Grants permission to enable or disable the automatic warm-up feature for dedicated IP addresses	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutAccountDetails</a>	Grants permission to update your account details	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutAccountSendingAttributes</a>	Grants permission to enable or disable the ability to send email for your account	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutAccountSuppressionAttributes</a>	Grants permission to change the settings for the account-level suppression list	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutAccountVdmAttributes</a>	Grants permission to change the settings for VDM for your account	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutConfigurationSetArchivingOptions</a>	Grants permission to associate a configuration set with a Mail Manager archive	Write	<a href="#">configuration-set*</a> <a href="#">mailmanager-archive</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutConfigurationSetDeliveryOptions</a>	Grants permission to associate a configuration set with a dedicated IP pool	Write	<a href="#">configuration-set*</a>  <a href="#">dedicated-ip-pool</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutConfigurationSetReputationOptions</a>	Grants permission to enable or disable collection of reputation metrics for emails that you send using a particular configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutConfigurationSetSendingOptions</a>	Grants permission to enable or disable email sending for messages that use a particular configuration set	Write	<a href="#">configuration-set*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutConfigurationSetSuppressionOptions</a>	Grants permission to specify the account suppression list preferences for a particular configuration set	Write	<a href="#">configuration-set*</a>		
<a href="#">PutConfigurationSetTrackingOptions</a>	Grants permission to specify a custom domain to use for open and click tracking elements in email that you send for a particular configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutConfigurationSetVdmOptions</a>	Grants permission to override account-level VDM settings for a particular configuration set	Write	<a href="#">configuration-set*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutDedicatedIpInPool</a>	Grants permission to move a dedicated IP address to an existing dedicated IP pool	Write	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutDedicatedIpPoolScalingAttributes</a>	Grants permission to transition a dedicated IP pool from Standard to Managed	Write	<a href="#">dedicated-ip-pool*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutDedicatedIpWarmupAttributes</a>	Grants permission to put Dedicated IP warm up attributes	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutDeliverabilityDashboardOption</a>	Grants permission to enable or disable the Deliverability dashboard	Write		<a href="#">ses:ApiVersion</a>	
<a href="#">PutEmailIdentityConfigurationSetAttributes</a>	Grants permission to associate a configuration set with an email identity	Write	<a href="#">identity*</a> <a href="#">configuration-set</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutEmailIdentityDKIMAttributes</a>	Grants permission to enable or disable DKIM authentication for an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutEmailIdentityDKIMSigningAttributes</a>	Grants permission to configure or change the DKIM authentication settings for an email domain identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutEmailIdentityFeedbackAttributes</a>	Grants permission to enable or disable feedback forwarding for an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutEmailIdentityMailFromAttributes</a>	Grants permission to enable or disable the custom MAIL FROM domain configuration for an email identity	Write	<a href="#">identity*</a>	<a href="#">ses:ApiVersion</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">PutSuppressedDestination</a>	Grants permission to add an email address to the suppression list	Write		<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
ReplicateEmailIdentityDkimSigningKey [permission only]	Grants permission to replicate email identity DKIM signing key	Permissions management	<a href="#">identity*</a>	<a href="#">ses:ReplicaRegion</a>	
<a href="#">SendBulkEmail</a>	Grants permission to compose an email message to multiple destinations	Write	<a href="#">identity*</a> <a href="#">template*</a> <a href="#">configuration-set</a>	<a href="#">ses:ApiVersion</a> <a href="#">ses:MultiRegionEndpointId</a> <a href="#">ses:TenantName</a>	
<a href="#">SendCustomVerificationEmail</a>	Grants permission to add an email address to the list of identities and attempts to verify it	Write	<a href="#">custom-verification-email-template*</a>	<a href="#">ses:ApiVersion</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendEmail</a>	Grants permission to send an email message	Write	<a href="#">identity*</a>  <a href="#">configuration-set</a>  <a href="#">template</a>	<a href="#">ses:ApiVersion</a>  <a href="#">ses:FeedbackAddress</a>  <a href="#">ses:FromAddress</a>  <a href="#">ses:FromDisplayName</a>  <a href="#">ses:Recipients</a>  <a href="#">ses:MultiRegionEndpointId</a>  <a href="#">ses:TenantName</a>	
<a href="#">TagResource</a>	Grants permission to add one or more tags (keys and values) to a specified resource	Tagging	<a href="#">configuration-set</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">contact-list</a>		
			<a href="#">custom-verification-email-template</a>		
			<a href="#">dedicated-ip-pool</a>		
			<a href="#">deliverability-test-report</a>		
			<a href="#">identity</a>		
			<a href="#">template</a>		
			<a href="#">tenant</a>		
				<a href="#">ses:ApiVersion</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TestRenderEmailTemplate</a>	Grants permission to create a preview of the MIME content of an email when provided with a template and a set of replacement data	Write	<a href="#">template*</a>	<a href="#">ses:ApiVersion</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags (keys and values) from a specified resource	Tagging	<a href="#">configuration-set</a>		
			<a href="#">contact-list</a>		
			<a href="#">custom-verification-email-template</a>		
			<a href="#">dedicated-ip-pool</a>		
			<a href="#">deliverability-test-report</a>		
			<a href="#">identity</a>		
			<a href="#">template</a>		
			<a href="#">tenant</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateConfigurationSetEventDestination</a>	Grants permission to update the configuration of an event destination for a configuration set	Write	<a href="#">configuration-set*</a>		
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateContact</a>	Grants permission to update a contact's preferences for a list	Write	<a href="#">contact-list*</a>		
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateContactList</a>	Grants permission to update contact list metadata	Write	<a href="#">contact-list*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateCustomVerificationEmailTemplate</a>	Grants permission to update an existing custom verification email template	Write	<a href="#">custom-verification-email-template*</a>		
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateEmailIdentityPolicy</a>	Grants permission to update the specified sending authorization policy for the given identity (an email address or a domain)	Permissions management	<a href="#">identity*</a>		
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateEmailTemplate</a>	Grants permission to update an email template	Write	<a href="#">template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateReputationEntityCustomerManagedStatus</a>	Grants permission to update the customer-managed sending status	Write	<a href="#">tenant*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateReputationEntityPolicy</a>	Grants permission to assign a reputation policy	Write	<a href="#">reputation-policy*</a> <a href="#">tenant*</a>	<a href="#">ses:ApiVersion</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon Simple Email Service v2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">reputation-policy</a>	arn:\${Partition}:ses:\${Region}:aws:reputation-policy/\${ReputationPolicyName}	
<a href="#">configuration-set</a>	arn:\${Partition}:ses:\${Region}:\${Account}:configuration-set/\${ConfigurationSetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">contact-list</a>	arn:\${Partition}:ses:\${Region}:\${Account}:contact-list/\${ContactListName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">custom-verification-email-template</a>	arn:\${Partition}:ses:\${Region}:\${Account}:custom-verification-email-template/\${TemplateName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dedicated-ip-pool</a>	arn:\${Partition}:ses:\${Region}:\${Account}:dedicated-ip-pool/\${DedicatedIPPool}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">deliverability-test-report</a>	arn:\${Partition}:ses:\${Region}:\${Account}:deliverability-test-report/\${ReportId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">export-job</a>	arn:\${Partition}:ses:\${Region}:\${Account}:export-job/\${ExportJobId}	

Resource types	ARN	Condition keys
<a href="#">identity</a>	arn:\${Partition}:ses:\${Region}:\${Account}:identity/\${IdentityName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">import-job</a>	arn:\${Partition}:ses:\${Region}:\${Account}:import-job/\${ImportJobId}	
<a href="#">template</a>	arn:\${Partition}:ses:\${Region}:\${Account}:template/\${TemplateName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">multi-region-endpoint</a>	arn:\${Partition}:ses:\${Region}:\${Account}:multi-region-endpoint/\${EndpointName}	
<a href="#">mailmanager-archive</a>	arn:\${Partition}:ses:\${Region}:\${Account}:mailmanager-archive/\${ArchiveId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tenant</a>	arn:\${Partition}:ses:\${Region}:\${Account}:tenant/\${TenantName}/\${TenantId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Simple Email Service v2

Amazon Simple Email Service v2 defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">ses:ApiVersion</a>	Filters access by the SES API version	String
<a href="#">ses:ExportSourceType</a>	Filters access by the export source type	String
<a href="#">ses:FeedbackAddress</a>	Filters access by the "Return-Path" address, which specifies where bounces and complaints are sent by email feedback forwarding	String
<a href="#">ses:FromAddress</a>	Filters access by the "From" address of a message	String
<a href="#">ses:FromDisplayName</a>	Filters access by the "From" address that is used as the display name of a message	String
<a href="#">ses:MultiRegionEndpointId</a>	Filters access by the multi-region endpoint ID that is used to send email	String
<a href="#">ses:Recipients</a>	Filters access by the recipient addresses of a message, which include the "To", "CC", and "BCC" addresses	ArrayOfString
<a href="#">ses:ReplicaRegion</a>	Filters access by the replica regions for Replicating domain DKIM signing key	ArrayOfString
<a href="#">ses:TenantName</a>	Filters access by the tenant name that is used to send email	String



# Actions, resources, and condition keys for Amazon Simple Workflow Service

Amazon Simple Workflow Service (service prefix: swf) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Simple Workflow Service](#)
- [Resource types defined by Amazon Simple Workflow Service](#)
- [Condition keys for Amazon Simple Workflow Service](#)

## Actions defined by Amazon Simple Workflow Service

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelTimer</a> [permission only]	Grants permission to cancel a previously started timer and record a TimerCanceled event in the history	Write	<a href="#">domain*</a>		
<a href="#">CancelWorkflowExecution</a>	Grants permission to close the workflow execution and record a WorkflowExecutionCanceled event in the history	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">CompleteWorkflowExecution</a> [permission only]	Grants permission to close the workflow execution and record a WorkflowExecutionCompleted event in the history	Write	<a href="#">domain*</a>		
<a href="#">ContinueAsNewWorkflowExecution</a> [permission only]	Grants permission to close the workflow execution and start a new workflow execution of the same type using the same workflow ID and a unique run Id	Write	<a href="#">domain*</a>		
<a href="#">CountClosedWorkflowExecutions</a>	Grants permission to return the number of closed workflow executions within the given domain that meet the specified filtering criteria	Read	<a href="#">domain*</a>	<a href="#">swf:tagFilter.tag</a> <a href="#">swf:typeFilter.name</a> <a href="#">swf:typeFilter.version</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CountOpenWorkflowExecutions</a>	Grants permission to return the number of open workflow executions within the given domain that meet the specified filtering criteria	Read	<a href="#">domain*</a>	<a href="#">swf:tagFilter.tag</a> <a href="#">swf:typeFilter.name</a> <a href="#">swf:typeFilter.version</a>	
<a href="#">CountPendingActivityTasks</a>	Grants permission to return the estimated number of activity tasks in the specified task list	Read	<a href="#">domain*</a>	<a href="#">swf:taskList.name</a>	
<a href="#">CountPendingDecisionTasks</a>	Grants permission to return the estimated number of decision tasks in the specified task list	Read	<a href="#">domain*</a>	<a href="#">swf:taskList.name</a>	
<a href="#">DeleteActivityType</a>	Grants permission to delete the specified activity type	Write	<a href="#">domain*</a>	<a href="#">swf:activityType.name</a> <a href="#">swf:activityType.version</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteWorkflowType</a>	Grants permission to delete the specified workflow type	Write	<a href="#">domain*</a>	<a href="#">swf:workflowType.name</a> <a href="#">swf:workflowType.version</a>	
<a href="#">DeprecateActivityType</a>	Grants permission to deprecate the specified activity type	Write	<a href="#">domain*</a>	<a href="#">swf:activityType.name</a> <a href="#">swf:activityType.version</a>	
<a href="#">DeprecateDomain</a>	Grants permission to deprecate the specified domain	Write	<a href="#">domain*</a>		
<a href="#">DeprecateWorkflowType</a>	Grants permission to deprecate the specified workflow type	Write	<a href="#">domain*</a>	<a href="#">swf:workflowType.name</a> <a href="#">swf:workflowType.version</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeActivityType</a>	Grants permission to return information about the specified activity type	Read	<a href="#">domain*</a>	<a href="#">swf:activityType.name</a> <a href="#">swf:activityType.version</a>	
<a href="#">DescribeDomain</a>	Grants permission to return information about the specified domain, including its description and status	Read	<a href="#">domain*</a>		
<a href="#">DescribeWorkflowExecution</a>	Grants permission to return information about the specified workflow execution including its type and some statistics	Read	<a href="#">domain*</a>		
<a href="#">DescribeWorkflowType</a>	Grants permission to return information about the specified workflow type	Read	<a href="#">domain*</a>	<a href="#">swf:workflowType.name</a> <a href="#">swf:workflowType.version</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">FailWorkflowExecution</a> [permission only]	Grants permission to close the workflow execution and record a WorkflowExecutionFailed event in the history	Write	<a href="#">domain*</a>		
<a href="#">GetWorkflowExecutionHistory</a>	Grants permission to return the history of the specified workflow execution	Read	<a href="#">domain*</a>		
<a href="#">ListActivityTypes</a>	Grants permission to return information about all activities registered in the specified domain that match the specified name and registration status	List	<a href="#">domain*</a>		
<a href="#">ListClosedWorkflowExecutions</a>	Grants permission to return a list of closed workflow executions in the specified domain that meet the filtering criteria	List	<a href="#">domain*</a>	<a href="#">swf:tagFilter.tag</a> <a href="#">swf:typeFilter.name</a> <a href="#">swf:typeFilter.version</a>	
<a href="#">ListDomains</a>	Grants permission to return the list of domains registered in the account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOpenWorkflowExecutions</a>	Grants permission to return a list of open workflow executions in the specified domain that meet the filtering criteria	List	<a href="#">domain*</a>	<a href="#">swf:tagFilter.tag</a> <a href="#">swf:typeFilter.name</a> <a href="#">swf:typeFilter.version</a>	
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS SWF resource	List	<a href="#">domain</a>		
<a href="#">ListWorkflowTypes</a>	Grants permission to return information about workflow types in the specified domain	List	<a href="#">domain*</a>		
<a href="#">PollForActivityTask</a>	Grants permission to workers to get an ActivityTask from the specified activity taskList	Write	<a href="#">domain*</a>	<a href="#">swf:taskList.name</a>	
<a href="#">PollForDecisionTask</a>	Grants permission to deciders to get a DecisionTask from the specified decision taskList	Write	<a href="#">domain*</a>	<a href="#">swf:taskList.name</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RecordActivityTaskHeartbeat</a>	Grants permission to workers to report to the service that the ActivityTask represented by the specified taskToken is still making progress	Write	<a href="#">domain*</a>		
<a href="#">RecordMarker</a> [permission only]	Grants permission to record a MarkerRecorded event in the history	Write	<a href="#">domain*</a>		
<a href="#">RegisterActivityType</a>	Grants permission to register a new activity type along with its configuration settings in the specified domain	Write	<a href="#">domain*</a>	<a href="#">swf:defaultTaskList.name</a> <a href="#">swf:name</a> <a href="#">swf:version</a>	
<a href="#">RegisterDomain</a>	Grants permission to register a new domain	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">RegisterWorkflowType</a>	Grants permission to register a new workflow type and its configuration settings in the specified domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RequestCancelActivityTask</a> [permission only]	Grants permission to attempt to cancel a previously scheduled activity task	Write	<a href="#">domain*</a>	<a href="#">swf:defaultTaskList.name</a>  <a href="#">swf:name</a>  <a href="#">swf:version</a>	
<a href="#">RequestCancelExternalWorkflowExecution</a> [permission only]	Grants permission to request that a request be made to cancel the specified external workflow execution	Write	<a href="#">domain*</a>		
<a href="#">RequestCancelWorkflowExecution</a>	Grants permission to record a WorkflowExecutionCancelRequested event in the currently running workflow execution identified by the given domain, workflowId, and runId	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RespondActivityTaskCanceled</a>	Grants permission to workers to tell the service that the ActivityTask identified by the taskToken was successfully canceled	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RespondActivityTaskCompleted</a>	Grants permission to workers to tell the service that the ActivityTask identified by the taskToken completed successfully with a result (if provided)	Write	<a href="#">domain*</a>	<a href="#">swf:activityType.name</a> <a href="#">swf:activityType.version</a> <a href="#">swf:tagList.member.0</a> <a href="#">swf:tagList.member.1</a> <a href="#">swf:tagList.member.2</a> <a href="#">swf:tagList.member.3</a> <a href="#">swf:tagList.member.4</a> <a href="#">swf:taskList.name</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RespondActivityTaskFailed</a>	Grants permission to workers to tell the service that the ActivityTask identified by the taskToken has failed with reason (if specified)	Write	<a href="#">domain*</a>	<a href="#">swf:workflowType.name</a> <a href="#">swf:workflowType.version</a>	
<a href="#">RespondDecisionTaskCompleted</a>	Grants permission to deciders to tell the service that the DecisionTask identified by the taskToken has successfully completed	Write	<a href="#">domain*</a>		
<a href="#">ScheduleActivityTask</a> [permission only]	Grants permission to schedule an activity task	Write	<a href="#">domain*</a>		
<a href="#">SignalExternalWorkflowExecution</a> [permission only]	Grants permission to request a signal to be delivered to the specified external workflow execution and records	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SignalWorkflowExecution</a>	Grants permission to record a WorkflowExecutionS igned event in the workflow execution history and create a decision task for the workflow execution identified by the given domain, workflowId and runId	Write	<a href="#">domain*</a>		
<a href="#">StartChildWorkflowExecution</a> [permission only]	Grants permission to request that a child workflow execution be started	Write	<a href="#">domain*</a>		
<a href="#">StartTimer</a> [permission only]	Grants permission to start a timer for a workflow execution	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartWorkflowExecution</a>	Grants permission to start an execution of the workflow type in the specified domain using the provided workflowId and input data	Write	<a href="#">domain*</a>	<a href="#">swf:tagList.member.0</a> <a href="#">swf:tagList.member.1</a> <a href="#">swf:tagList.member.2</a> <a href="#">swf:tagList.member.3</a> <a href="#">swf:tagList.member.4</a> <a href="#">swf:taskList.name</a> <a href="#">swf:workflowType.name</a> <a href="#">swf:workflowType.version</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag an AWS SWF resource	Tagging	<a href="#">domain</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TerminateWorkflowExecution</a>	Grants permission to record a WorkflowExecutionTerminated event and force closure of the workflow execution identified by the given domain, runId, and workflowId	Write	<a href="#">domain*</a>		
<a href="#">UndeprecateActivityType</a>	Grants permission to undeprecate a previously deprecated activity type	Write	<a href="#">domain*</a>	<a href="#">swf:activityType.name</a> <a href="#">swf:activityType.version</a>	
<a href="#">UndeprecateDomain</a>	Grants permission to undeprecate a previously deprecated domain	Write	<a href="#">domain*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UndeprecateWorkflowType</a>	Grants permission to undeprecate a previously deprecated workflow type	Write	<a href="#">domain*</a>	<a href="#">swf:workflowType.name</a> <a href="#">swf:workflowType.version</a>	
<a href="#">UntagResource</a>	Grants permission to remove a tag from an AWS SWF resource	Tagging	<a href="#">domain</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon Simple Workflow Service

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:swf::\${Account}:/domain/\${DomainName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Simple Workflow Service

Amazon Simple Workflow Service defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag of the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag of the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag of the key	ArrayOfString
<a href="#">swf:activityType.name</a>	Filters access by the name of the activity type	String
<a href="#">swf:activityType.version</a>	Filters access by the version of the activity type	String
<a href="#">swf:defaultTaskList.name</a>	Filters access by the name of the default task list	String
<a href="#">swf:name</a>	Filters access by the name of activities or workflows	String
<a href="#">swf:tagFilter.tag</a>	Filters access by the value of tagFilter.tag	String
<a href="#">swf:tagList.member.0</a>	Filters access by the specified tag	String
<a href="#">swf:tagList.member.1</a>	Filters access by the specified tag	String

Condition keys	Description	Type
<a href="#">swf:tagLi</a> <a href="#">st.member.2</a>	Filters access by the specified tag	String
<a href="#">swf:tagLi</a> <a href="#">st.member.3</a>	Filters access by the specified tag	String
<a href="#">swf:tagLi</a> <a href="#">st.member.4</a>	Filters access by the specified tag	String
<a href="#">swf:taskL</a> <a href="#">ist.name</a>	Filters access by the name of the tasklist	String
<a href="#">swf:typeF</a> <a href="#">ilter.name</a>	Filters access by the name of the type filter	String
<a href="#">swf:typeF</a> <a href="#">ilter.version</a>	Filters access by the version of the type filter	String
<a href="#">swf:version</a>	Filters access by the version of activities or workflows	String
<a href="#">swf:workf</a> <a href="#">lowType.name</a>	Filters access by the name of the workflow type	String
<a href="#">swf:workf</a> <a href="#">lowType.version</a>	Filters access by the version of the workflow type	String

## Actions, resources, and condition keys for Amazon SimpleDB

Amazon SimpleDB (service prefix: sdb) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon SimpleDB](#)
- [Resource types defined by Amazon SimpleDB](#)
- [Condition keys for Amazon SimpleDB](#)

## Actions defined by Amazon SimpleDB

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteAttributes</a>	Grants permission to perform multiple DeleteAttributes operations in a single call, which reduces round trips and latencies	Write	<a href="#">domain*</a>		
<a href="#">BatchPutAttributes</a>	Grants permission to perform multiple PutAttribute operations in a single call, which reduces round trips and latencies	Write	<a href="#">domain*</a>		
<a href="#">CreateDomain</a>	Grants permission to create a new domain	Write	<a href="#">domain*</a>		
<a href="#">DeleteAttributes</a>	Grants permission to delete one or more attributes associated with the item	Write	<a href="#">domain*</a>		
<a href="#">DeleteDomain</a>	Grants permission to delete a domain	Write	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DomainMetadata</a>	Grants permission to return information about the domain, including when the domain was created, the number of items and attributes, and the size of attribute names and values	Read	<a href="#">domain*</a>		
<a href="#">GetAttributes</a>	Grants permission to return all of the attributes associated with the item	Read	<a href="#">domain*</a>		
<a href="#">GetExport</a>	Grants permission to return information for an existing domain export arn	Read	<a href="#">export*</a>		
<a href="#">ListDomains</a>	Grants permission to list all domains	List			
<a href="#">ListExports</a>	Grants permission to list all exports that were created. The results are paginated and can be filtered by domain name	List	<a href="#">domain</a>		
<a href="#">PutAttributes</a>	Grants permission to create or replace attributes in an item	Write	<a href="#">domain*</a>		
<a href="#">Select</a>	Grants permission to execute a query against the items in a domain	Read	<a href="#">domain*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartDomainExport</a>	Grants permission to initiate the export of a SimpleDB domain to an S3 bucket	Write	<a href="#">domain*</a>		

## Resource types defined by Amazon SimpleDB

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">domain</a>	arn:\${Partition}:sdb:\${Region}:\${Account}:domain/\${DomainName}	
<a href="#">export</a>	arn:\${Partition}:sdb:\${Region}:\${Account}:domain/\${DomainName}/export/\${ExportUUID}	

## Condition keys for Amazon SimpleDB

SimpleDB has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS SimSpace Weaver

AWS SimSpace Weaver (service prefix: `simspaceweaver`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS SimSpace Weaver](#)
- [Resource types defined by AWS SimSpace Weaver](#)
- [Condition keys for AWS SimSpace Weaver](#)

## Actions defined by AWS SimSpace Weaver

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.



The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSnapshot</a>	Grants permission to create a snapshot	Write	<a href="#">Simulation*</a>		
<a href="#">DeleteApp</a>	Grants permission to delete an app	Write	<a href="#">Simulation*</a>		
<a href="#">DeleteSimulation</a>	Grants permission to delete a simulation	Write	<a href="#">Simulation*</a>		
<a href="#">DescribeApp</a>	Grants permission to describe an app	Read	<a href="#">Simulation*</a>		
<a href="#">DescribeSimulation</a>	Grants permission to describe a simulation	Read	<a href="#">Simulation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListApps</a>	Grants permission to list apps	Read	<a href="#">Simulation*</a>		
<a href="#">ListSimulations</a>	Grants permission to list simulations	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource	Read			
<a href="#">StartApp</a>	Grants permission to start an app	Write	<a href="#">Simulation*</a>		
<a href="#">StartClock</a>	Grants permission to start a simulation clock	Write	<a href="#">Simulation*</a>		
<a href="#">StartSimulation</a>	Grants permission to start a simulation	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StopApp</a>	Grants permission to stop an app	Write	<a href="#">Simulation*</a>		
<a href="#">StopClock</a>	Grants permission to stop a simulation clock	Write	<a href="#">Simulation*</a>		
<a href="#">StopSimulation</a>	Grants permission to stop a simulation	Write	<a href="#">Simulation*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">Simulation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">Simulation*</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS SimSpace Weaver

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Simulation</a>	arn:\${Partition}:simspaceweaver:\${Region}:\${Account}:simulation/\${SimulationName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS SimSpace Weaver

AWS SimSpace Weaver defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Snow Device Management

AWS Snow Device Management (service prefix: `snow-device-management`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Snow Device Management](#)

- [Resource types defined by AWS Snow Device Management](#)
- [Condition keys for AWS Snow Device Management](#)

## Actions defined by AWS Snow Device Management

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelTask</a>	Grants permission to cancel tasks on remote devices	Write	<a href="#">task*</a>		
<a href="#">CreateTask</a>	Grants permission to create tasks on remote devices	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DescribeDevice</a>	Grants permission to describe a remotely-managed device	Read	<a href="#">managed-device*</a>		
<a href="#">DescribeDeviceEc2Instances</a>	Grants permission to describe a remotely-managed device's EC2 instances	Read	<a href="#">managed-device*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeExecution</a>	Grants permission to describe task executions	Read			
<a href="#">DescribeTask</a>	Grants permission to describe a task	Read	<a href="#">task*</a>		
<a href="#">ListDeviceResources</a>	Grants permission to list a remotely-managed device's resources	List	<a href="#">managed-device*</a>		
<a href="#">ListDevices</a>	Grants permission to list remotely-managed devices	List			
<a href="#">ListExecutions</a>	Grants permission to list task executions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags for a resource (device or task)	Read		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListTasks</a>	Grants permission to list tasks	List			
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">managed-device</a> <a href="#">task</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource	Tagging	<a href="#">managed-device</a>		
			<a href="#">task</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS Snow Device Management

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">managed-device</a>	arn:\${Partition}:snow-device-management:\${Region}:\${Account}:managed-device/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>



Resource types	ARN	Condition keys
<a href="#">task</a>	arn:\${Partition}:snow-device-management:\${Region}:\${Account}:task/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Snow Device Management

AWS Snow Device Management defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Snowball

AWS Snowball (service prefix: snowball) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Snowball](#)
- [Resource types defined by AWS Snowball](#)
- [Condition keys for AWS Snowball](#)

## Actions defined by AWS Snowball

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelCluster</a>	Grants permission to cancel a cluster job	Write			
<a href="#">CancelJob</a>	Grants permission to cancel the specified job	Write			
<a href="#">CreateAddress</a>	Grants permission to create an address for a Snowball to be shipped to	Write			
<a href="#">CreateCluster</a>	Grants permission to create an empty cluster	Write			
<a href="#">CreateJob</a>	Grants permission to creates a job to import or export data between Amazon S3 and your on-premises data center	Write			
<a href="#">CreateLongTermPricing</a>	Grants permission to creates a LongTermPricingListEntry for	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	allowing customers to add an upfront billing contract for a job				
<a href="#">CreateReturnShippingLabel</a>	Grants permission to create a shipping label that will be used to return the Snow device to AWS	Write			
<a href="#">DescribeAddress</a>	Grants permission to get specific details about that address in the form of an Address object	Read			
<a href="#">DescribeAddresses</a>	Grants permission to describe a specified number of ADDRESS objects	List			
<a href="#">DescribeCluster</a>	Grants permission to describe information about a specific cluster including shipping information, cluster status, and other important metadata	Read			
<a href="#">DescribeJob</a>	Grants permission to describe information about a specific job including shipping information, job status, and other important metadata	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeReturnShippingLabel</a>	Grants permission to describe information on the shipping label of a Snow device that is being returned to AWS	Read			
<a href="#">GetJobManifest</a>	Grants permission to get a link to an Amazon S3 presigned URL for the manifest file associated with the specified JobId value	Read			
<a href="#">GetJobUnlockCode</a>	Grants permission to get the UnlockCode code value for the specified job	Read			
<a href="#">GetSnowballUsage</a>	Grants permission to get information about the Snowball service limit for your account, and also the number of Snowballs your account has in use	Read			
<a href="#">GetSoftwareUpdates</a>	Grants permission to return an Amazon S3 presigned URL for an update file associated with a specified JobId	Read			
<a href="#">ListClusterJobs</a>	Grants permission to list JobListEntry objects of the specified length	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListClusters</a>	Grants permission to list ClusterListEntry objects of the specified length	List			
<a href="#">ListCompatibleImages</a>	Grants permission to return a list of the different Amazon EC2 Amazon Machine Images (AMIs) that are owned by your AWS account that would be supported for use on a Snow device	List			
<a href="#">ListJobs</a>	Grants permission to list JobListEntry objects of the specified length	List			
<a href="#">ListLongTermPricing</a>	Grants permission to list LongTermPricingListEntry objects for the account making the request	Read			
<a href="#">ListPickupLocations</a>	Grants permission to list Address objects where pickup is available, of the specified length	List			
<a href="#">ListServiceVersions</a>	Grants permission to list all supported versions for Snow on-device services	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCluster</a>	Grants permission to update while a cluster's ClusterState value is in the AwaitingQuorum state, you can update some of the information associated with a cluster	Write			
<a href="#">UpdateJob</a>	Grants permission to update while a job's JobState value is New, you can update some of the information associated with a job	Write			
<a href="#">UpdateJobShipmentState</a>	Grants permission to update the state when a the shipment states changes to a different state	Write			
<a href="#">UpdateLongTermPricing</a>	Grants permission to update a specific upfront billing contract for a job	Write			

## Resource types defined by AWS Snowball

AWS Snowball does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Snowball, specify "Resource": "\*" in your policy.

## Condition keys for AWS Snowball

Snowball has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon SNS

Amazon SNS (service prefix: sns) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon SNS](#)
- [Resource types defined by Amazon SNS](#)
- [Condition keys for Amazon SNS](#)

## Actions defined by Amazon SNS

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).


The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type



is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddPermission</a>	Grants permission to add a statement to a topic's access control policy, granting access for the specified AWS accounts to the specified actions	Permissions management	<a href="#">topic*</a>		
<a href="#">CheckIfPhoneNumberIsOptedOut</a>	Grants permission to accept a phone number and indicate whether the phone holder has	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	opted out of receiving SMS messages from your account				
<a href="#">ConfirmSubscription</a>	Grants permission to verify an endpoint owner's intent to receive messages by validating the token sent to the endpoint by an earlier <code>Subscribe</code> action	Write	<a href="#">topic*</a>		
<a href="#">CreatePlatformApplication</a>	Grants permission to create a platform application object for one of the supported push notification services, such as APNS and GCM, to which devices and mobile apps may register	Write			iam:PassRole
<a href="#">CreatePlatformEndpoint</a>	Grants permission to create an endpoint for a device and mobile app on one of the supported push notification services, such as GCM and APNS	Write			
<a href="#">CreateSMSandboxPhoneNumber</a>	Grants permission to add a destination phone number and send a one-time password (OTP) to that phone number for an AWS account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTopic</a>	Grants permission to create a topic to which notifications can be published	Write	<a href="#">topic*</a>		iam:PassRole
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteEndpoint</a>	Grants permission to delete the endpoint for a device and mobile app from Amazon SNS	Write			
<a href="#">DeletePlatformApplication</a>	Grants permission to delete a platform application object for one of the supported push notification services, such as APNS and GCM	Write			
<a href="#">DeleteSMSandboxPhoneNumber</a>	Grants permission to delete an AWS account's verified or pending phone number	Write			
<a href="#">DeleteTopic</a>	Grants permission to delete a topic and all its subscriptions	Write	<a href="#">topic*</a>		
<a href="#">GetDataProtectionPolicy</a>	Grants permission to return the data protection policy of the topic	Read	<a href="#">topic*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetEndpointAttributes</a>	Grants permission to retrieve the endpoint attributes for a device on one of the supported push notification services, such as GCM and APNS	Read			
<a href="#">GetPlatformApplicationAttributes</a>	Grants permission to retrieve the attributes of the platform application object for the supported push notification services, such as APNS and GCM	Read			
<a href="#">GetSMSAttributes</a>	Grants permission to return the settings for sending SMS messages from your account	Read			
<a href="#">GetSMSSandboxAccountStatus</a>	Grants permission to retrieve the sandbox status for the calling account in the target region	Read			
<a href="#">GetSubscriptionAttributes</a>	Grants permission to return all of the properties of a subscription	Read			
<a href="#">GetTopicAttributes</a>	Grants permission to return all of the properties of a topic	Read	<a href="#">topic*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEndpointsByPlatformApplication</a>	Grants permission to list the endpoints and endpoint attributes for devices in a supported push notification service, such as GCM and APNS	List			
<a href="#">ListOriginationNumbers</a>	Grants permission to list all origination numbers, and their metadata	List			
<a href="#">ListPhoneNumbersOptedOut</a>	Grants permission to return a list of phone numbers that are opted out, meaning you cannot send SMS messages to them	Read			
<a href="#">ListPlatformApplications</a>	Grants permission to list the platform application objects for the supported push notification services, such as APNS and GCM	List			
<a href="#">ListSMSSandboxPhoneNumbers</a>	Grants permission to list the calling account's current pending and verified destination phone numbers	List			
<a href="#">ListSubscriptions</a>	Grants permission to return a list of the requester's subscriptions	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSubscriptionsByTopic</a>	Grants permission to return a list of the subscriptions to a specific topic	List	<a href="#">topic*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list all tags added to the specified Amazon SNS topic	Read	<a href="#">topic</a>		
<a href="#">ListTopics</a>	Grants permission to return a list of the requester's topics	List			
<a href="#">OptInPhoneNumber</a>	Grants permission to opt in a phone number that is currently opted out, which enables you to resume sending SMS messages to the number	Write			
<a href="#">Publish</a>	Grants permission to send a message to all of a topic's subscribed endpoints	Write	<a href="#">topic*</a>		
<a href="#">PutDataProtectionPolicy</a>	Grants permission to allow a topic owner to set the data protection policy	Write	<a href="#">topic*</a>		
<a href="#">RemovePermission</a>	Grants permission to remove a statement from a topic's access control policy	Permissions management	<a href="#">topic*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetEndpointAttributes</a>	Grants permission to set the attributes for an endpoint for a device on one of the supported push notification services, such as GCM and APNS	Write			
<a href="#">SetPlatformApplicationAttributes</a>	Grants permission to set the attributes of the platform application object for the supported push notification services, such as APNS and GCM	Write			iam:PassRole
<a href="#">SetSMSAttributes</a>	Grants permission to set the default settings for sending SMS messages and receiving daily SMS usage reports	Write			
<a href="#">SetSubscriptionAttributes</a>	Grants permission to allow a subscription owner to set an attribute of the topic to a new value	Write			
<a href="#">SetTopicAttributes</a>	Grants permission to allow a topic owner to set an attribute of the topic to a new value	Permissions management	<a href="#">topic*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Subscribe</a>	Grants permission to prepare to subscribe an endpoint by sending the endpoint a confirmation message	Write	<a href="#">topic*</a>	<a href="#">sns:Endpoint</a> <a href="#">sns:Protocol</a>	
<a href="#">TagResource</a>	Grants permission to add tags to the specified Amazon SNS topic	Tagging	<a href="#">topic</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">Unsubscribe</a>	Grants permission to delete a subscription	Write			
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified Amazon SNS topic	Tagging	<a href="#">topic</a>	<a href="#">aws:TagKeys</a>	
<a href="#">VerifySMSandboxPhoneNumber</a>	Grants permission to verify a destination phone number with a one-time password (OTP) for an AWS account	Write			



## Resource types defined by Amazon SNS

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">topic</a>	arn:\${Partition}:sns:\${Region}:\${Account}:\${TopicName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon SNS

Amazon SNS defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags from request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys from request	ArrayOfString
<a href="#">sns:Endpoint</a>	Filters access by the URL, email address, or ARN from a Subscribe request or a previously confirmed subscription	String

Condition keys	Description	Type
<a href="#">sns:Protocol</a>	Filters access by the protocol value from a Subscribe request or a previously confirmed subscription	String

## Actions, resources, and condition keys for AWS SQL Workbench

AWS SQL Workbench (service prefix: `sqlworkbench`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS SQL Workbench](#)
- [Resource types defined by AWS SQL Workbench](#)
- [Condition keys for AWS SQL Workbench](#)

## Actions defined by AWS SQL Workbench

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateConnectionWithChart</a>	Grants permission to associate connection to a chart	Write	<a href="#">chart*</a> <a href="#">connection*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">AssociateConnectionWithTab</a> [permission only]	Grants permission to associate connection to a tab	Write	<a href="#">connection*</a>		
<a href="#">AssociateNotebookWithTab</a> [permission only]	Grants permission to associate notebook to a tab	Write	<a href="#">notebook*</a>		
<a href="#">AssociateQueryWithTab</a> [permission only]	Grants permission to associate query to a tab	Write	<a href="#">query*</a>		
<a href="#">BatchDeleteFolder</a> [permission only]	Grants permission to delete folders on your account	Write			
<a href="#">BatchGetNotebookCell</a> [permission only]	Grants permission to get notebook cells content on your account	Read	<a href="#">notebook*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccount</a> [permission only]	Grants permission to create SQLWorkbench account	Write			
<a href="#">CreateChart</a> [permission only]	Grants permission to create new saved chart on your account	Write	<a href="#">chart*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateConnection</a> [permission only]	Grants permission to create a new connection on your account	Write	<a href="#">connection*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateFolder</a> [permission only]	Grants permission to create folder on your account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNotebook</a> [permission only]	Grants permission to create a new notebook on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateNotebookCell</a> [permission only]	Grants permission to create a notebook cell on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateNotebookFromVersion</a> [permission only]	Grants permission to create a new notebook from a notebook version on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateNotebookVersion</a> [permission only]	Grants permission to create a notebook version on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateSavedQuery</a> [permission only]	Grants permission to create a new saved query on your account	Write	<a href="#">query*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">DeleteChart</a> [permission only]	Grants permission to remove charts on your account	Write	<a href="#">chart*</a>		
<a href="#">DeleteConnection</a> [permission only]	Grants permission to remove connections on your account	Write	<a href="#">connection*</a>		
<a href="#">DeleteNotebook</a> [permission only]	Grants permission to remove notebooks on your account	Write	<a href="#">notebook*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteNotebookCell</a> [permission only]	Grants permission to remove notebooks cells on your account	Write	<a href="#">notebook*</a>		
<a href="#">DeleteNotebookVersion</a> [permission only]	Grants permission to remove notebooks cells on your account	Write	<a href="#">notebook*</a>		
<a href="#">DeleteCustomContext</a> [permission only]	Grants permission to delete account-wide custom context	Write			
<a href="#">DeleteSavedQuery</a> [permission only]	Grants permission to remove saved queries on your account	Write	<a href="#">query*</a>		
<a href="#">DeleteSqlGenerationContext</a> [permission only]	Grants permission to delete sql generation context	Write			
<a href="#">DeleteTab</a> [permission only]	Grants permission to remove a tab on your account	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DriverExecute</a> [permission only]	Grants permission to execute a query in your redshift cluster	Write	<a href="#">connection*</a>		
<a href="#">Duplicate Notebook</a> [permission only]	Grants permission to create a new notebook by duplicating an existing one on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">ExportNotebook</a> [permission only]	Grants permission to export a notebook on your account	Read	<a href="#">notebook*</a>		
<a href="#">GenerateSession</a> [permission only]	Grants permission to generate a new session on your account	Write			
<a href="#">GetAccountInfo</a> [permission only]	Grants permission to get account info	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccountSettings</a> [permission only]	Grants permission to get account settings	Read			
<a href="#">GetAutocompleteMetadata</a> [permission only]	Grants permission to get database structure metadata for auto-completion	Read			
<a href="#">GetAutocompleteResource</a> [permission only]	Grants permission to get database structure information for auto-completion	Read			
<a href="#">GetChart</a> [permission only]	Grants permission to get charts on your account	Read	<a href="#">chart*</a>		
<a href="#">GetConnection</a> [permission only]	Grants permission to get connections on your account	Read	<a href="#">connection*</a>		
<a href="#">GetNotebook</a> [permission only]	Grants permission to get notebook metadata on your account	Read	<a href="#">notebook*</a>		
<a href="#">GetNotebookVersion</a> [permission only]	Grants permission to get the content of a notebook version on your account	Read	<a href="#">notebook*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCustomContext</a> [permission only]	Grants permission to get account-wide custom context	Read			
<a href="#">GetSqlPrompts</a> [permission only]	Grants permission to get Q generative SQL maximum prompt quotas	Read			
<a href="#">GetSqlRecommendations</a> [permission only]	Grants permission to get text to SQL recommendations	Read			
<a href="#">GetQueryExecutionHistory</a> [permission only]	Grants permission to get the query execution history on your account	Read			
<a href="#">GetSavedQuery</a> [permission only]	Grants permission to get saved query on your account	Read	<a href="#">query*</a>		
<a href="#">GetSchemaInference</a> [permission only]	Grants permission to get the columns and data types inferred from a file	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetSqlGenerationContext</a> [permission only]	Grants permission to get sql generation context	Read			
<a href="#">GetSqlRecommendations</a> [permission only]	Grants permission to get text to SQL recommendations	Read			
<a href="#">GetUserInfo</a> [permission only]	Grants permission to get user info	Read			
<a href="#">GetUserWorkspaceSettings</a> [permission only]	Grants permission to get workspace settings on your account	Read			
<a href="#">ImportNotebook</a> [permission only]	Grants permission to import a notebook on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConnections</a> [permission only]	Grants permission to list the connections on your account	List			
<a href="#">ListDatabases</a> [permission only]	Grants permission to list databases of your redshift cluster	List			
<a href="#">ListFiles</a> [permission only]	Grants permission to list files and folders	List			
<a href="#">ListNotebookVersions</a> [permission only]	Grants permission to get notebook versions metadata on your account	List	<a href="#">notebook*</a>		
<a href="#">ListNotebooks</a> [permission only]	Grants permission to list the notebooks on your account	List			
<a href="#">ListQueryExecutionHistory</a> [permission only]	Grants permission to list the query execution history on your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRedshiftClusters</a> [permission only]	Grants permission to list redshift clusters on your account	List			
<a href="#">ListSampleDatabases</a> [permission only]	Grants permission to list sample databases	Read			
<a href="#">ListSavedQueryVersions</a> [permission only]	Grants permission to list versions of saved query on your account	List	<a href="#">query*</a>		
<a href="#">ListTabs</a> [permission only]	Grants permission to list tabs on your account	List			
<a href="#">ListTaggedResources</a> [permission only]	Grants permission to list tagged resources	Read			
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to list the tags of an sqlworkbench resource	Read	<a href="#">chart</a>		
			<a href="#">connection</a>		
			<a href="#">notebook</a>		
			<a href="#">query</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PassAccountSettings</a> [permission only]	Grants permission to provide account settings with the request	Write			
<a href="#">PutCustomContext</a> [permission only]	Grants permission to update account-wide custom context	Write			
<a href="#">PutSqlGenerationContext</a> [permission only]	Grants permission to update sql generation context	Write			
<a href="#">PutTab</a> [permission only]	Grants permission to create or update a tab on your account	Write			
<a href="#">PutWorkspaceSettings</a> [permission only]	Grants permission to update workspace settings on your account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RestoreNotebookVersion</a> [permission only]	Grants permission to restore a notebook on your account to a version	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TagResource</a> [permission only]	Grants permission to tag an sqlworkbench resource	Tagging	<a href="#">chart</a>		
			<a href="#">connection</a>		
			<a href="#">notebook</a>		
			<a href="#">query</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to untag an sqlworkbench resource	Tagging	<a href="#">chart</a>		
			<a href="#">connection</a>		
			<a href="#">notebook</a>		
			<a href="#">query</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountConnectionSettings</a> [permission only]	Grants permission to update account-wide connection settings	Write			
<a href="#">UpdateAccountExportSettings</a> [permission only]	Grants permission to update account-wide export settings	Write			
<a href="#">UpdateAccountGeneralSettings</a> [permission only]	Grants permission to update account-wide general settings	Write			
<a href="#">UpdateAccountSQLSettings</a> [permission only]	Grants permission to update account-wide text to SQL settings	Write			
<a href="#">UpdateChart</a> [permission only]	Grants permission to update a chart on your account	Write	<a href="#">chart*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateConnection</a> [permission only]	Grants permission to update a connection on your account	Write	<a href="#">connection*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateFileFolder</a> [permission only]	Grants permission to move files on your account	Write	<a href="#">chart</a> <a href="#">query</a>		
<a href="#">UpdateFolder</a> [permission only]	Grants permission to update a folder's name and details on your account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotebook</a> [permission only]	Grants permission to update a notebook metadata on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateNotebookCellContent</a> [permission only]	Grants permission to update a notebook cell content on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateNotebookCellLayout</a> [permission only]	Grants permission to update a notebook cell layout on your account	Write	<a href="#">notebook*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateSavedQuery</a> [permission only]	Grants permission to update a saved query on your account	Write	<a href="#">query*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	

## Resource types defined by AWS SQL Workbench

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">connection</a>	arn:\${Partition}:sqlworkbench:\${Region}:\${Account}:connection/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">query</a>	arn:\${Partition}:sqlworkbench:\${Region}:\${Account}:query/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">chart</a>	arn:\${Partition}:sqlworkbench:\${Region}:\${Account}:chart/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">notebook</a>	arn:\${Partition}:sqlworkbench:\${Region}:\${Account}:notebook/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS SQL Workbench

AWS SQL Workbench defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags that are associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon SQS

Amazon SQS (service prefix: `sqs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon SQS](#)
- [Resource types defined by Amazon SQS](#)
- [Condition keys for Amazon SQS](#)

## Actions defined by Amazon SQS

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddPermission</a>	Grants permission to a queue for a specific principal	Permissions management	<a href="#">queue*</a>		
<a href="#">CancelMessageMoveTask</a>	Grants permission to cancel an in progress message move task	Write	<a href="#">queue*</a>		
<a href="#">ChangeMessageVisibility</a>	Grants permission to change the visibility timeout of a specified message in a queue to a new value	Write	<a href="#">queue*</a>		
<a href="#">CreateQueue</a>	Grants permission to create a new queue, or returns the URL of an existing one	Write	<a href="#">queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteMessage</a>	Grants permission to delete the specified message from the specified queue	Write	<a href="#">queue*</a>		
<a href="#">DeleteQueue</a>	Grants permission to delete the queue specified by the queue URL, regardless of whether the queue is empty	Write	<a href="#">queue*</a>		
<a href="#">GetQueueAttributes</a>	Grants permission to get attributes for the specified queue	Read	<a href="#">queue*</a>		
<a href="#">GetQueueUrl</a>	Grants permission to return the URL of an existing queue	Read	<a href="#">queue*</a>		
<a href="#">ListDeadLetterSourceQueues</a>	Grants permission to return a list of your queues that have the RedrivePolicy queue attribute configured with a dead letter queue	Read	<a href="#">queue*</a>		
<a href="#">ListMessageMoveTasks</a>	Grants permission to list message move tasks	Read	<a href="#">queue*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListQueueTags</a>	Grants permission to list tags added to an SQS queue	Read	<a href="#">queue*</a>		
<a href="#">ListQueues</a>	Grants permission to return a list of your queues	Read			
<a href="#">PurgeQueue</a>	Grants permission to delete the messages in a queue specified by the queue URL	Write	<a href="#">queue*</a>		
<a href="#">ReceiveMessage</a>	Grants permission to retrieve one or more messages, with a maximum limit of 10 messages, from the specified queue	Read	<a href="#">queue*</a>		
<a href="#">RemovePermission</a>	Grants permission to revoke any permissions in the queue policy that matches the specified Label parameter	Permissions management	<a href="#">queue*</a>		
<a href="#">SendMessage</a>	Grants permission to deliver a message to the specified queue	Write	<a href="#">queue*</a>		
<a href="#">SetQueueAttributes</a>	Grants permission to set the value of one or more queue attributes	Write	<a href="#">queue*</a>		
<a href="#">StartMessageMoveTask</a>	Grants permission to start a message move task	Write	<a href="#">queue*</a>		
<a href="#">TagQueue</a>	Grants permission to add tags to the specified SQS queue	Tagging	<a href="#">queue*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagQueue</a>	Grants permission to remove tags from the specified SQS queue	Tagging	<a href="#">queue*</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by Amazon SQS

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

The ARN of the queue is used only in IAM permission policies. In API and CLI calls, you use the queue's URL instead.

Resource types	ARN	Condition keys
<a href="#">queue</a>	arn:\${Partition}:sqs:\${Region}:\${Account}:\${QueueName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon SQS

Amazon SQS defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Step Functions

AWS Step Functions (service prefix: `states`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Step Functions](#)
- [Resource types defined by AWS Step Functions](#)
- [Condition keys for AWS Step Functions](#)

## Actions defined by AWS Step Functions

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateActivity</a>	Grants permission to create an activity	Write	<a href="#">activity*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStateMachine</a>	Grants permission to create a state machine	Write	<a href="#">statemachine*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	iam:PassRole  states:PublishStateMachineVersion

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateStateMachineAlias</a>	Grants permission to create a state machine alias	Write	<a href="#">stateMachine*</a>		
				<a href="#">states:StateMachineQualifier</a>	
<a href="#">DeleteActivity</a>	Grants permission to delete an activity	Write	<a href="#">activity*</a>		
<a href="#">DeleteStateMachine</a>	Grants permission to delete a state machine	Write	<a href="#">stateMachine*</a>		
<a href="#">DeleteStateMachineAlias</a>	Grants permission to delete a state machine alias	Write	<a href="#">stateMachine*</a>		
				<a href="#">states:StateMachineQualifier</a>	
<a href="#">DeleteStateMachineVersion</a>	Grants permission to delete a state machine version	Write	<a href="#">stateMachine*</a>		
				<a href="#">states:StateMachineQualifier</a>	
<a href="#">DescribeActivity</a>	Grants permission to describe an activity	Read	<a href="#">activity*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeExecution</a>	Grants permission to describe an execution	Read	<a href="#">execution*</a> <a href="#">express*</a>		
<a href="#">DescribeMapRun</a>	Grants permission to describe a map run	Read	<a href="#">maprun*</a>		
<a href="#">DescribeStateMachine</a>	Grants permission to describe a state machine	Read	<a href="#">statemachine*</a>	<a href="#">states:StateMachineQualifier</a>	
<a href="#">DescribeStateMachineAlias</a>	Grants permission to describe a state machine alias	Read	<a href="#">statemachine*</a>	<a href="#">states:StateMachineQualifier</a>	
<a href="#">DescribeStateMachineForExecution</a>	Grants permission to describe the state machine for an execution	Read	<a href="#">execution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetActivityTask</a>	Grants permission to be used by workers to retrieve a task (with the specified activity ARN) which has been scheduled for execution by a running state machine	Write	<a href="#">activity*</a>		
<a href="#">GetExecutionHistory</a>	Grants permission to return the history of the specified execution as a list of events	Read	<a href="#">execution*</a>		
<a href="#">InvokeHTTPEndpoint</a> [permission only]	Grants permission to invoke the HTTP Task state	Write			
<a href="#">ListActivities</a>	Grants permission to list the existing activities	List			
<a href="#">ListExecutions</a>	Grants permission to list the executions of a state machine	List	<a href="#">maprun*</a>		
			<a href="#">statemachine*</a>		
				<a href="#">states:StateQualifier</a>	
<a href="#">ListMapRuns</a>	Grants permission to list the map runs of an execution	List	<a href="#">execution*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListStateMachineAliases</a>	Grants permission to list the aliases of a state machine	List	<a href="#">statemachine*</a>	<a href="#">states:StateMachineQualifier</a>	
<a href="#">ListStateMachineVersions</a>	Grants permission to list the versions of a state machine	List	<a href="#">statemachine*</a>		
<a href="#">ListStateMachines</a>	Grants permission to lists the existing state machines	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS Step Functions resource	List	<a href="#">activity</a> <a href="#">statemachine</a>		
<a href="#">PublishStateMachineVersion</a>	Grants permission to publish a state machine version	Write	<a href="#">statemachine*</a>		
<a href="#">RedriveExecution</a>	Grants permission to redrive an execution	Write	<a href="#">execution*</a>		
<a href="#">RevealSecrets</a> [permission only]	Grants permission to reveal sensitive data from an execution	Read			
<a href="#">SendTaskFailure</a>	Grants permission to report that the task identified by the taskToken failed	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendTaskHeartbeat</a>	Grants permission to report to the service that the task represented by the specified taskToken is still making progress	Write			
<a href="#">SendTaskSuccess</a>	Grants permission to report that the task identified by the taskToken completed successfully	Write			
<a href="#">StartExecution</a>	Grants permission to start a state machine execution	Write	<a href="#">state:stateMachine*</a>		
				<a href="#">states:StateMachineQualifier</a>	
<a href="#">StartSyncExecution</a>	Grants permission to start a Synchronous Express state machine execution	Write	<a href="#">state:stateMachine*</a>		
				<a href="#">states:StateMachineQualifier</a>	
<a href="#">StopExecution</a>	Grants permission to stop an execution	Write	<a href="#">execution*</a>		
<a href="#">TagResource</a>	Grants permission to tag an AWS Step Functions resource	Tagging	<a href="#">activity</a>		
			<a href="#">state:stateMachine</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TestState</a>	Grants permission to test a state machine definition	Write			states:RevealSecrets
<a href="#">UntagResource</a>	Grants permission to remove a tag from an AWS Step Functions resource	Tagging	<a href="#">activity</a> <a href="#">statemachine</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateMapRun</a>	Grants permission to update a map run	Write	<a href="#">maprun*</a>		
<a href="#">UpdateStateMachine</a>	Grants permission to update a state machine	Write	<a href="#">statemachine*</a>		iam:PassRole states:PublishStateMachineVersion

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateStateMachineAlias</a>	Grants permission to update a state machine alias	Write	<a href="#">statemachine*</a>		
				<a href="#">states:StateMachineQualifier</a>	
<a href="#">ValidateStateMachineDefinition</a>	Grants permission to validate a state machine definition	Read			

## Resource types defined by AWS Step Functions

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">activity</a>	arn:\${Partition}:states:\${Region}:\${Account}:activity:\${ActivityName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">execution</a>	arn:\${Partition}:states:\${Region}:\${Account}:execution:\${StateMachineName}:\${ExecutionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">express</a>	arn:\${Partition}:states:\${Region}:\${Account}:express:\${StateMachineName}:\${ExecutionId}:\${ExpressId}	
<a href="#">statemachine</a>	arn:\${Partition}:states:\${Region}:\${Account}:stateMachine:\${StateMachineName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">statemachineinversion</a>	arn:\${Partition}:states:\${Region}:\${Account}:stateMachine:\${StateMachineName}:\${StateMachineVersionId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">statemachinealias</a>	arn:\${Partition}:states:\${Region}:\${Account}:stateMachine:\${StateMachineName}:\${StateMachineAliasName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">maprun</a>	arn:\${Partition}:states:\${Region}:\${Account}:mapRun:\${StateMachineName}/\${MapRunLabel}:\${MapRunId}	
<a href="#">labelled execution</a>	arn:\${Partition}:states:\${Region}:\${Account}:execution:\${StateMachineName}/\${MapRunLabel}:\${ExecutionId}	
<a href="#">labelled express</a>	arn:\${Partition}:states:\${Region}:\${Account}:express:\${StateMachineName}/\${MapRunLabel}:\${ExecutionId}:\${ExpressId}	

## Condition keys for AWS Step Functions

AWS Step Functions defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString
<a href="#">states:HTTPEndpoint</a>	Filters access by the endpoint that the HTTP Task state allows in the request	String
<a href="#">states:HTTPMethod</a>	Filters access by the method that the HTTP Task state allows in the request	String
<a href="#">states:StateMachineQualifier</a>	Filters access by the qualifier of a state machine ARN	ArrayOfString

## Actions, resources, and condition keys for AWS Storage Gateway

AWS Storage Gateway (service prefix: `storagegateway`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Storage Gateway](#)
- [Resource types defined by AWS Storage Gateway](#)
- [Condition keys for AWS Storage Gateway](#)

## Actions defined by AWS Storage Gateway


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateGateway</a>	Grants permission to activate the gateway you previously deployed on your host	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AddCache</a>	Grants permission to configure one or more gateway local disks as cache for a cached-volume gateway	Write	<a href="#">gateway*</a>		
<a href="#">AddTagsToResource</a>	Grants permission to add one or more tags to the specified resource	Tagging	<a href="#">cache-report</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">fs-association</a>		
			<a href="#">gateway</a>		
			<a href="#">share</a>		
			<a href="#">tape</a>		
			<a href="#">tapepool</a>		
			<a href="#">volume</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AddUploadBuffer</a>	Grants permission to configure one or more gateway local disks as upload buffer for a specified gateway	Write	<a href="#">gateway*</a>		
<a href="#">AddWorkingStorage</a>	Grants permission to configure one or more gateway local disks as working storage for a gateway	Write	<a href="#">gateway*</a>		
<a href="#">AssignTapePool</a>		Write	<a href="#">tape*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	Grants permission to move a tape to the target pool specified		<a href="#">tapepool*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate FileSystem</a>	Grants permission to associate an Amazon FSx file system with the Amazon FSx file gateway	Write	<a href="#">gateway*</a>		ds:DescribeDirectories ec2:DescribeNetworkInterfaces fsx:DescribeFileSystems iam:CreateServiceLinkedRole logs:CreateLogDelivery logs:GetLogDelivery logs:ListLogDeliveries logs:UpdateLogDelivery

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/</a> <a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">AttachVolume</a>	Grants permission to connect a volume to an iSCSI connection and then attaches the volume to the specified gateway	Write	<a href="#">gateway*</a> <a href="#">volume*</a>		
<a href="#">BypassGovernanceRetention</a>	Grants permission to allow the governance retention lock on a pool to be bypassed	Write	<a href="#">tapepool*</a>		
<a href="#">CancelArchival</a>	Grants permission to cancel archiving of a virtual tape to the virtual tape shelf (VTS) after the archiving process is initiated	Write	<a href="#">gateway*</a> <a href="#">tape*</a>		
<a href="#">CancelCacheReport</a>	Grants permission to cancel a cache report	Write	<a href="#">cache-report*</a>		
<a href="#">CancelRetrieval</a>	Grants permission to cancel retrieval of a virtual tape from the virtual tape shelf (VTS) to a gateway after the retrieval process is initiated	Write	<a href="#">gateway*</a> <a href="#">tape*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCachedVolume</a>	Grants permission to create a cached volume on a specified cached gateway. This operation is supported only for the gateway-cached volume architecture	Write	<a href="#">gateway*</a> <a href="#">volume*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateNFSFileShare</a>	Grants permission to create a NFS file share on an existing file gateway	Write	<a href="#">gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSMBFileShare</a>	Grants permission to create a SMB file share on an existing file gateway	Write	<a href="#">gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSnapshot</a>	Grants permission to initiate a snapshot of a volume	Write	<a href="#">volume*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSnapshotFromVolumeRecoveryPoint</a>	Grants permission to initiate a snapshot of a gateway from a volume recovery point	Write	<a href="#">volume*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateStorageVolume</a>	Grants permission to create a volume on a specified gateway	Write	<a href="#">gateway*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTapePool</a>	Grants permission to create a tape pool	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTapeWithBarcode</a>	Grants permission to create a virtual tape by using your own barcode	Write	<a href="#">gateway*</a> <a href="#">tapepool*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTapes</a>	Grants permission to create one or more virtual tapes. You write data to the virtual tapes and then archive the tapes	Write	<a href="#">gateway*</a> <a href="#">tapepool*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAutomaticTapeCreationPolicy</a>	Grants permission to delete the automatic tape creation policy configured on a gateway-VTL	Write	<a href="#">gateway*</a>		
<a href="#">DeleteBandwidthRateLimit</a>	Grants permission to delete the bandwidth rate limits of a gateway	Write	<a href="#">gateway*</a>		
<a href="#">DeleteCacheReport</a>	Grants permission to delete the metadata associated with a cache report	Write	<a href="#">cache-report*</a>		
<a href="#">DeleteChapCredentials</a>	Grants permission to delete Challenge-Handshake Authentication Protocol (CHAP) credentials for a specified iSCSI target and initiator pair	Write	<a href="#">target*</a>		
<a href="#">DeleteFileShare</a>	Grants permission to delete a file share from a file gateway	Write	<a href="#">share*</a>		
<a href="#">DeleteGateway</a>	Grants permission to delete a gateway	Write	<a href="#">gateway*</a>		
<a href="#">DeleteSnapshotSchedule</a>	Grants permission to delete a snapshot of a volume	Write	<a href="#">volume*</a>		
<a href="#">DeleteTape</a>	Grants permission to delete the specified virtual tape	Write	<a href="#">gateway*</a> <a href="#">tape*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTapeArchive</a>	Grants permission to delete the specified virtual tape from the virtual tape shelf (VTS)	Write			
<a href="#">DeleteTapePool</a>	Grants permission to delete the specified tape pool	Write	<a href="#">tapepool*</a>		
<a href="#">DeleteVolume</a>	Grants permission to delete the specified gateway volume that you previously created using the CreateCachediSCSIVolume or CreateStorediSCSIVolume API	Write	<a href="#">volume*</a>		
<a href="#">DescribeAvailabilityMonitorTest</a>	Grants permission to get the information about the most recent high availability monitoring test that was performed on the gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeBandwidthRateLimit</a>	Grants permission to get the bandwidth rate limits of a gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeBandwidthRateLimitSchedule</a>	Grants permission to get the bandwidth rate limit schedule of a gateway	Read	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCache</a>	Grants permission to get information about the cache of a gateway. This operation is supported only for the gateway-cached volume architecture	Read	<a href="#">gateway*</a>		
<a href="#">DescribeCacheReport</a>	Grants permission to get a description of a cache report	Read	<a href="#">cache-report*</a>		
<a href="#">DescribeCachediSCSIVolumes</a>	Grants permission to get a description of the gateway volumes specified in the request. This operation is supported only for the gateway-cached volume architecture	Read	<a href="#">volume*</a>		
<a href="#">DescribeChapCredentials</a>	Grants permission to get an array of Challenge-Handshake Authentication Protocol (CHAP) credentials information for a specified iSCSI target, one for each target-initiator pair	Read	<a href="#">target*</a>		
<a href="#">DescribeFileSystemAssociations</a>	Grants permission to get a description for one or more file system associations	Read	<a href="#">fs-association*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeGatewayInformation</a>	Grants permission to get metadata about a gateway such as its name, network interfaces, configured time zone, and the state (whether the gateway is running or not)	Read	<a href="#">gateway*</a>		
<a href="#">DescribeMaintenanceStartTime</a>	Grants permission to get your gateway's weekly maintenance start time including the day and time of the week	Read	<a href="#">gateway*</a>		
<a href="#">DescribeNFSFileShares</a>	Grants permission to get a description for one or more file shares from a file gateway	Read	<a href="#">share*</a>		
<a href="#">DescribeSMBFileShares</a>	Grants permission to get a description for one or more file shares from a file gateway	Read	<a href="#">share*</a>		
<a href="#">DescribeSMBSettings</a>	Grants permission to get a description of a Server Message Block (SMB) file share settings from a file gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeSnapshotSchedule</a>	Grants permission to describe the snapshot schedule for the specified gateway volume	Read	<a href="#">volume*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeS torediSCS IVolumes</a>	Grants permission to get the description of the gateway volumes specified in the request	Read	<a href="#">volume*</a>		
<a href="#">DescribeT apeArchives</a>	Grants permission to get a description of specified virtual tapes in the virtual tape shelf (VTS)	Read			
<a href="#">DescribeT apeRecover yPoints</a>	Grants permission to get a list of virtual tape recovery points that are available for the specified gateway-VTL	Read	<a href="#">gateway*</a>		
<a href="#">DescribeT apes</a>	Grants permission to get a description of the specified Amazon Resource Name (ARN) of virtual tapes	Read	<a href="#">gateway*</a>		
<a href="#">DescribeU ploadBuffer</a>	Grants permission to get information about the upload buffer of a gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeV TLDevices</a>	Grants permission to get a description of virtual tape library (VTL) devices for the specified gateway	Read	<a href="#">gateway*</a>		
<a href="#">DescribeW orkingSto rage</a>	Grants permission to get information about the working storage of a gateway	Read	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DetachVolume</a>	Grants permission to disconnect a volume from an iSCSI connection and then detaches the volume from the specified gateway	Write	<a href="#">volume*</a>		
<a href="#">DisableGateway</a>	Grants permission to disable a gateway when the gateway is no longer functioning	Write	<a href="#">gateway*</a>		
<a href="#">DisassociateFileSystem</a>	Grants permission to disassociate an Amazon FSx file system from an Amazon FSx file gateway	Write	<a href="#">fs-association*</a>		
<a href="#">EvictFilesFailingUpload</a>	Grants permission to clean a share's cache of file entries that are failing upload to Amazon S3	Write	<a href="#">share*</a>		
<a href="#">JoinDomain</a>	Grants permission to enable you to join an Active Directory Domain	Write	<a href="#">gateway*</a>		
<a href="#">ListAutomaticTapeCreationPolicies</a>	Grants permission to list the automatic tape creation policies configured on the specified gateway-VTL or all gateway-VTLs owned by your AWS account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListCacheReports</a>	Grants permission to get a list of the cache reports owned by your AWS account	List			
<a href="#">ListFileShares</a>	Grants permission to get a list of the file shares for a specific file gateway, or the list of file shares owned by your AWS account	List			
<a href="#">ListFileSystemAssociations</a>	Grants permission to get a list of the file system associations for the specified gateway	List			
<a href="#">ListGateways</a>	Grants permission to list gateways owned by an AWS account in a region specified in the request. The returned list is ordered by gateway Amazon Resource Name (ARN)	List			
<a href="#">ListLocalDisks</a>	Grants permission to get a list of the gateway's local disks	List	<a href="#">gateway*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to get the tags that have been added to the specified resource	List	<a href="#">gateway</a>		
			<a href="#">share</a>		
			<a href="#">tape</a>		
			<a href="#">volume</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTapePools</a>	Grants permission to list tape pools owned by your AWS account	List			
<a href="#">ListTapes</a>	Grants permission to list virtual tapes in your virtual tape library (VTL) and your virtual tape shelf (VTS)	List			
<a href="#">ListVolumeInitiators</a>	Grants permission to list iSCSI initiators that are connected to a volume	List	<a href="#">volume*</a>		
<a href="#">ListVolumeRecoveryPoints</a>	Grants permission to list the recovery points for a specified gateway	List	<a href="#">gateway*</a>		
<a href="#">ListVolumes</a>	Grants permission to list the iSCSI stored volumes of a gateway	List			
<a href="#">NotifyWhenUploaded</a>	Grants permission to send you a notification through CloudWatch Events when all files written to your NFS file share have been uploaded to Amazon S3	Write	<a href="#">share*</a>		
<a href="#">RefreshCache</a>	Grants permission to refresh the cache for the specified file share	Write	<a href="#">share*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RemoveTagsFromResource</a>	Grants permission to remove one or more tags from the specified resource	Tagging	<a href="#">cache-report</a>		
			<a href="#">fs-association</a>		
			<a href="#">gateway</a>		
			<a href="#">share</a>		
			<a href="#">tape</a>		
			<a href="#">tapepool</a>		
			<a href="#">volume</a>		
			<a href="#">aws:TagKeys</a>		
<a href="#">ResetCache</a>	Grants permission to reset all cache disks that have encountered a error and makes the disks available for reconfiguration as cache storage	Write	<a href="#">gateway*</a>		
<a href="#">RetrieveTapeArchive</a>	Grants permission to retrieve an archived virtual tape from the virtual tape shelf (VTS) to a gateway-VTL	Write	<a href="#">gateway*</a>		
			<a href="#">tape*</a>		
<a href="#">RetrieveTapeRecoveryPoint</a>	Grants permission to retrieve the recovery point for the specified virtual tape	Write	<a href="#">gateway*</a>		
			<a href="#">tape*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetLocalConsolePassword</a>	Grants permission to set the password for your VM local console	Write	<a href="#">gateway*</a>		
<a href="#">SetSMBGuestPassword</a>	Grants permission to set the password for SMB Guest user	Write	<a href="#">gateway*</a>		
<a href="#">ShutdownGateway</a>	Grants permission to shut down a gateway	Write	<a href="#">gateway*</a>		
<a href="#">StartAvailabilityMonitorTest</a>	Grants permission to start a test that verifies that the specified gateway is configured for High Availability monitoring in your host environment	Write	<a href="#">gateway*</a>		
<a href="#">StartCacheReport</a>	Grants permission to start a cache report for an existing file share	Write	<a href="#">share*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">StartGateway</a>	Grants permission to start a gateway that you previously shut down	Write	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAutomaticTapeCreationPolicy</a>	Grants permission to update the automatic tape creation policy configured on a gateway-VTL	Write	<a href="#">gateway*</a> <a href="#">tapepool*</a>		
<a href="#">UpdateBandwidthRateLimit</a>	Grants permission to update the bandwidth rate limits of a gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdateBandwidthRateLimitSchedule</a>	Grants permission to update the bandwidth rate limit schedule of a gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdateChallengeHandshakeAuthenticationProtocolCredentials</a>	Grants permission to update the Challenge-Handshake Authentication Protocol (CHAP) credentials for a specified iSCSI target	Write	<a href="#">target*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFileSystemAssociation</a>	Grants permission to update a file system association	Write	<a href="#">fs-association*</a>		logs:CreateLogDelivery  logs>DeleteLogDelivery  logs:GetLogDelivery  logs:ListLogDeliveries  logs:UpdateLogDelivery
<a href="#">UpdateGatewayInformation</a>	Grants permission to update a gateway's metadata, which includes the gateway's name and time zone	Write	<a href="#">gateway*</a>		
<a href="#">UpdateGatewaySoftwareNow</a>	Grants permission to update the gateway virtual machine (VM) software	Write	<a href="#">gateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateMaintenanceStartTime</a>	Grants permission to update a gateway's weekly maintenance start time information, including day and time of the week. The maintenance time is the time in your gateway's time zone	Write	<a href="#">gateway*</a>		
<a href="#">UpdateNFSFileShare</a>	Grants permission to update a NFS file share	Write	<a href="#">share*</a>		
<a href="#">UpdateSMBFileShare</a>	Grants permission to update a SMB file share	Write	<a href="#">share*</a>		
<a href="#">UpdateSMBFileShareVisibility</a>	Grants permission to update whether the shares on a gateway are visible in a net view or browse list	Write	<a href="#">gateway*</a>		
<a href="#">UpdateSMBLocalGroups</a>	Grants permission to update the list of Active Directory users and groups that have special permissions for SMB file shares on the gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdateSMBSecurityStrategy</a>	Grants permission to update the SMB security strategy on a file gateway	Write	<a href="#">gateway*</a>		
<a href="#">UpdateSnapshotSchedule</a>	Grants permission to update a snapshot schedule configured for a gateway volume	Write	<a href="#">volume*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateVTLDeviceType</a>	Grants permission to update the type of medium changer in a gateway-VTL	Write	<a href="#">device*</a>		

## Resource types defined by AWS Storage Gateway

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">cache-report</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:share/\${ShareId}/cache-report/\${CacheReportId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">device</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:gateway/\${GatewayId}/device/\${Vtldevice}	

Resource types	ARN	Condition keys
<a href="#">fs-association</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:fs-association/\${FsaId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">gateway</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:gateway/\${GatewayId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">share</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:share/\${ShareId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tape</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:tape/\${TapeBarcode}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">tapepool</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:tapepool/\${PoolId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">target</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:gateway/\${GatewayId}/target/\${IscsiTarget}	
<a href="#">volume</a>	arn:\${Partition}:storagegateway:\${Region}:\${Account}:gateway/\${GatewayId}/volume/\${VolumeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Storage Gateway

AWS Storage Gateway defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Supply Chain

AWS Supply Chain (service prefix: scn) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Supply Chain](#)
- [Resource types defined by AWS Supply Chain](#)
- [Condition keys for AWS Supply Chain](#)

## Actions defined by AWS Supply Chain

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssignAdminPermissionsToUser</a>	Grants permission to add AWS Supply Chain administrator permission to federated user	Write	<a href="#">instance*</a>		
<a href="#">CreateBillOfMaterialsImportJob</a>	Grants permission to create a BillOfMaterialsImportJob which will import a CSV file of BillOfMaterials records	Write	<a href="#">instance*</a>		
<a href="#">CreateDataIntegrationFlow</a>	Grants permission to create DataIntegrationFlow that can transform from multiple sources to one target	Write	<a href="#">instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataLakeDataset</a>	Grants permission to create the data lake dataset	Write	<a href="#">instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDataLakeNamespace</a>	Grants permission to create the data lake namespace	Write	<a href="#">instance*</a>	<a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateInstance</a>	Grants permission to create a new AWS Supply Chain instance	Write	<a href="#">instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSSOApplication</a>	Grants permission to create IAM Identity Center application for a AWS Supply Chain instance	Write	<a href="#">instance*</a>		
<a href="#">DeleteDataIntegrationFlow</a>	Grants permission to delete the DataIntegrationFlow	Write	<a href="#">data-integration-flow*</a>		
<a href="#">DeleteDataLakeDataset</a>	Grants permission to delete the data lake dataset	Write	<a href="#">dataset*</a>		
<a href="#">DeleteDataLakeNamespace</a>	Grants permission to delete the data lake namespace	Write	<a href="#">namespace*</a> _		
<a href="#">DeleteInstance</a>	Grants permission to delete an AWS Supply Chain instance	Write	<a href="#">instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSSOApplication</a>	Grants permission to delete IAM Identity Center application of the AWS Supply Chain instance	Write	<a href="#">instance*</a>		
<a href="#">DescribeInstance</a>	Grants permission to view details of an AWS Supply Chain instance	Read	<a href="#">instance*</a>		
<a href="#">GetBillOfMaterialsImportJob</a>	Grants permission to view status and details of a BillOfMaterialsImportJob	Read	<a href="#">bill-of-materials-import-job*</a>		
<a href="#">GetDataIntegrationEvent</a>	Grants permission to get a DataIntegrationEvent	Read	<a href="#">instance*</a>		
<a href="#">GetDataIntegrationFlow</a>	Grants permission to get the DataIntegrationFlow details	Read	<a href="#">data-integration-flow*</a>		
<a href="#">GetDataIntegrationFlowExecution</a>	Grants permission to get a particular execution of one specified DataIntegrationFlow	Read	<a href="#">data-integration-flow*</a>		
<a href="#">GetDataLakeDataset</a>	Grants permission to get the dataset details	Read	<a href="#">dataset*</a>		
<a href="#">GetDataLakeNamespace</a>	Grants permission to get the namespace details	Read	<a href="#">namespace*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInstance</a>	Grants permission to view details of an AWS Supply Chain instance	Read	<a href="#">instance*</a>		
<a href="#">ListAdminUsers</a>	Grants permission to list AWS Supply Chain administrators of an instance	List	<a href="#">instance*</a>		
<a href="#">ListDataIntegrationEvents</a>	Grants permission to list all DataIntegrationEvents under an instance	List	<a href="#">instance*</a>		
<a href="#">ListDataIntegrationFlowExecutions</a>	Grants permission to list all executions of one specified DataIntegrationFlow	List	<a href="#">data-integration-flow*</a>		
<a href="#">ListDataIntegrationFlows</a>	Grants permission to list all the DataIntegrationFlows in a paginated way	List	<a href="#">instance*</a>		
<a href="#">ListDataLakeDatasets</a>	Grants permission to list the data lake datasets under specific instance or namespace	List	<a href="#">instance*</a>		
<a href="#">ListDataLakeNamespaces</a>	Grants permission to list the data lake namespaces under specific instance	List	<a href="#">instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInstances</a>	Grants permission to view the AWS Supply Chain instances associated with an AWS account	List	<a href="#">instance*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS Supply Chain resource	List	<a href="#">instance*</a>		
<a href="#">RemoveAdminPermissionsForUser</a>	Grants permission to remove AWS Supply Chain administrator permission from federated user	Write	<a href="#">instance*</a>		
<a href="#">SendDataIntegrationEvent</a>	Grants permission to create a DataIntegrationEvent which will ingest data in real-time	Write	<a href="#">instance*</a>		
<a href="#">TagResource</a>	Grants permission to tag an AWS Supply Chain resource	Tagging	<a href="#">instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove tag from an AWS Supply Chain resource	Tagging	<a href="#">instance*</a>	<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataIntegrationFlow</a>	Grants permission to update the DataIntegrationFlow	Write	<a href="#">data-integration-flow*</a>		
<a href="#">UpdateDataLakeDataset</a>	Grants permission to update the data lake dataset	Write	<a href="#">dataset*</a>		
<a href="#">UpdateDataLakeNamespace</a>	Grants permission to update the data lake namespace	Write	<a href="#">namespace*</a>		
<a href="#">UpdateInstance</a>	Grants permission to update an AWS Supply Chain instance	Write	<a href="#">instance*</a>		

## Resource types defined by AWS Supply Chain

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">instance</a>	arn:\${Partition}:scn:\${Region}:\${Account}:instance/\${InstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">bill-of-materials-import-job</a>	arn:\${Partition}:scn:\${Region}:\${Account}:instance/\${InstanceId}/bill-of-materials-import-job/\${JobId}	

Resource types	ARN	Condition keys
<a href="#">data-integration-flow</a>	arn:\${Partition}:scn:\${Region}:\${Account}:instance/\${InstanceId}/data-integration-flows/\${FlowName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">namespace</a>	arn:\${Partition}:scn:\${Region}:\${Account}:instance/\${InstanceId}/namespaces/\${Namespace}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dataset</a>	arn:\${Partition}:scn:\${Region}:\${Account}:instance/\${InstanceId}/namespaces/\${Namespace}/datasets/\${DatasetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Supply Chain

AWS Supply Chain defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by using tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by using tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by using tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Support

AWS Support (service prefix: `support`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Support](#)
- [Resource types defined by AWS Support](#)
- [Condition keys for AWS Support](#)

## Actions defined by AWS Support

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).


The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern



for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.


The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

 **Note**

Support provides the ability to access, modify and resolve cases, as well as use Trusted Advisor actions. When you use the Support API to call Trusted Advisor-related actions, none of the "trustedadvisor:\*" actions restrict your access. The "trustedadvisor:\*" actions apply only to Trusted Advisor in the AWS Management Console.

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddAttachmentsToSet</a>	Grants permission to add one or more attachments to an AWS Support case	Write			
<a href="#">AddCommunicationToCase</a>	Grants permission to add a customer communication to an AWS Support case	Write			
<a href="#">CreateCase</a>	Grants permission to creates a new AWS Support case	Write			
<a href="#">DescribeAttachment</a>	Grants permission to describe attachment detail	Read			
<a href="#">DescribeCaseAttributes</a>	Grants permission to allow secondary services to read AWS Support case attributes.This is an internally managed function	Read			
<a href="#">DescribeCaseOptions</a>	Grants permission to describe the available options for a single AWS Support case. This is an internally managed function	Read			
<a href="#">DescribeCases</a>	Grants permission to list AWS Support cases that matches the given inputs	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCommunication</a>	Grants permission to get a single communication and attachments for a single AWS Support case	Read			
<a href="#">DescribeCommunications</a>	Grants permission to list the communications and attachments for one or more AWS Support cases	Read			
<a href="#">DescribeCreateCaseOptions</a>	Grants permission to describes the available options for creating a support case	Read			
<a href="#">DescribeIssueTypes</a>	Grants permission to return issue types for AWS Support cases	Read			
<a href="#">DescribeServices</a>	Grants permission to list AWS services and categories that applies to each service	Read			
<a href="#">DescribeSeverityLevels</a>	Grants permission to list severity levels that can be assigned to an AWS Support case	Read			
<a href="#">DescribeSupportLevel</a>	Grants permission to return the support level for an AWS Account identifier	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeSupportedLanguages</a>	Grants permission to describes the available support languages for a given category code, service code and issue type	Read			
<a href="#">DescribeTrustedAdvisorCheckRefreshStatuses</a>	Grants permission to get the status of a Trusted Advisor refresh check based on a list of check identifiers	Read			
<a href="#">DescribeTrustedAdvisorCheckResult</a>	Grants permission to get the results of the Trusted Advisor check that has the specified check identifier	Read			
<a href="#">DescribeTrustedAdvisorCheckSummaries</a>	Grants permission to get the summaries of the results of the Trusted Advisor checks that have the specified check identifiers	Read			
<a href="#">DescribeTrustedAdvisorChecks</a>	Grants permission to get a list of all available Trusted Advisor checks, including name, identifier, category and description	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInteraction</a>	Grants permission to retrieve personalized troubleshooting assistance for account and technical issues for a specific interaction	Read			
<a href="#">InitiateCallForCase</a>	Grants permission to initiate a call on AWS Support Center. This is an internally managed function	Write			
<a href="#">InitiateChatForCase</a>	Grants permission to initiate a chat on AWS Support Center. This is an internally managed function	Write			
<a href="#">InitiateLiveContactForCase</a>	Grants permission to initiate a live contact on AWS Support Center. This is an internally managed function	Write			
<a href="#">ListInteractionEntries</a>	Grants permission to retrieve a list of entries within a specific interaction, including messages, status updates, or other relevant data points	Read			
<a href="#">ListInteractions</a>	Grants permission to retrieve a list of interactions, potentially with filters or pagination	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutCaseAttributes</a>	Grants permission to allow secondary services to attach attributes to AWS Support cases. This is an internally managed function	Write			
<a href="#">RateCaseCommunication</a>	Grants permission to rate an AWS Support case communication	Write			
<a href="#">RefreshTrustedAdvisorCheck</a>	Grants permission to requests a refresh of the Trusted Advisor check that has the specified check identifier	Write			
<a href="#">ResolveCase</a>	Grants permission to resolve an AWS Support case	Write			
<a href="#">ResolveInteraction</a>	Grants permission to mark a specific interaction as resolved by its unique identifier, indicating that the issue has been addressed and no further action is needed	Write			
<a href="#">SearchForCases</a>	Grants permission to return a list of AWS Support cases that matches the given inputs	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartInteraction</a>	Grants permission to start a specific interaction to receive personalized troubleshooting assistance for account and technical issues	Write			support:DescribeSupportLevel
<a href="#">UpdateCaseSeverity</a>	Grants permission to update the severity for a single AWS Support case. This is an internally managed function	Write			
<a href="#">UpdateInteraction</a>	Grants permission to update a specific interaction to receive personalized troubleshooting assistance for account and technical issues	Write			

## Resource types defined by AWS Support

AWS Support does not support specifying a resource ARN in the `Resource` element of an IAM policy statement. To allow access to AWS Support, specify `"Resource": "*" in your policy.`

## Condition keys for AWS Support

Support has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Support App in Slack

AWS Support App in Slack (service prefix: `supportapp`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Support App in Slack](#)
- [Resource types defined by AWS Support App in Slack](#)
- [Condition keys for AWS Support App in Slack](#)

## Actions defined by AWS Support App in Slack

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.



The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSlackChannelConfiguration</a>	Grants permission to create a Slack channel configuration for your account	Write			
<a href="#">DeleteAccountAlias</a>	Grants permission to delete an alias from your account	Write			
<a href="#">DeleteSlackChannelConfiguration</a>	Grants permission to delete a Slack channel configuration from your account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSlackWorkspaceConfiguration</a>	Grants permission to delete a Slack workspace configuration from your account	Write			
<a href="#">DescribeSlackChannels</a> [permission only]	Grants permission to list all public Slack channels in a workspace that have invited the AWS Support App	Read			
<a href="#">GetAccountAlias</a>	Grants permission to get the alias for your account	Read			
<a href="#">GetSlackOAuthParameters</a> [permission only]	Grants permission to get parameters for the Slack OAuth code, which the AWS Support App uses to authorize the workspace	Read			
<a href="#">ListSlackChannelConfigurations</a>	Grants permission to list all Slack channel configurations for your account	Read			
<a href="#">ListSlackWorkspaceConfigurations</a>	Grants permission to list all Slack workspace configurations for your account	Read			
<a href="#">PutAccountAlias</a>	Grants permission to create or update an alias for your account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RedeemSlackOAuthCode</a> [permission only]	Grants permission to redeem the Slack OAuth code, which the AWS Support App uses to authorize the workspace	Write			
<a href="#">RegisterSlackWorkspaceForOrganization</a>	Grants permission to register a Slack workspace for an AWS account that is part of an organization	Write			
<a href="#">UpdateSlackChannelConfiguration</a>	Grants permission to update a Slack channel configuration for your account	Write			

## Resource types defined by AWS Support App in Slack

AWS Support App in Slack does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Support App in Slack, specify "Resource": "\*" in your policy.

## Condition keys for AWS Support App in Slack

Support App has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Support Console

AWS Support Console (service prefix: `support-console`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Support Console](#)
- [Resource types defined by AWS Support Console](#)
- [Condition keys for AWS Support Console](#)

## Actions defined by AWS Support Console

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CheckSubscription</a> [permission only]	Grants permission to check whether the account has access to given product	Read			
<a href="#">CreateCaseDraft</a> [permission only]	Grants permission to create or update case draft for the given case type	Write			
<a href="#">CreateContact</a> [permission only]	Grants permission to create an authenticated contact for the given contact type	Write			
<a href="#">DeleteCaseDraft</a>	Grants permission to delete a case draft for the given case type	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">DescribeDynamicHelp</a> [permission only]	Grants permission to get dynamic help resources for given service and category	Read			
<a href="#">GetAccountGovCloudEnabled</a> [permission only]	Grants permission to determine whether the calling account is GovCloud enabled	Read			
<a href="#">GetAccountState</a> [permission only]	Grants permission to get the state of the calling account	Read			
<a href="#">GetBanner</a> [permission only]	Grants permission to get the support banner information	Read			
<a href="#">GetCaseDraft</a> [permission only]	Grants permission to get a case draft for given case type	Read			
<a href="#">GetIssueClassificationPredictions</a> [permission only]	Grants permission to get classification predictions of an issue	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIssueTextSummary</a> [permission only]	Grants permission to get a generated text summary of an issue	Read			
<a href="#">GetQuestionnaire</a> [permission only]	Grants permission to get a feedback questionnaire	Read			
<a href="#">SaveFeedback</a> [permission only]	Grants permission to save questionnaire feedback	Write			

## Resource types defined by AWS Support Console

AWS Support Console does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Support Console, specify "Resource": "\*" in your policy.

## Condition keys for AWS Support Console

Support Console has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Support Plans

AWS Support Plans (service prefix: supportplans) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Support Plans](#)
- [Resource types defined by AWS Support Plans](#)
- [Condition keys for AWS Support Plans](#)

## Actions defined by AWS Support Plans

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.



The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSupportPlanSchedule</a> [permission only]	Grants permission to create support plan schedules for this AWS account	Write			
<a href="#">GetSupportPlan</a> [permission only]	Grants permission to view details about the current support plan for this AWS account	Read			
<a href="#">GetSupportPlanUpdateStatus</a> [permission only]	Grants permission to view details about the status for a request to update a support plan	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSupportPlanModifiers</a> [permission only]	Grants permission to view a list of all support plan modifiers for this AWS account	List			
<a href="#">StartSupportPlanUpdate</a> [permission only]	Grants permission to update the support plan for this AWS account	Write			

## Resource types defined by AWS Support Plans

AWS Support Plans does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Support Plans, specify "Resource": "\*" in your policy.

## Condition keys for AWS Support Plans

Support Plans has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Sustainability

AWS Sustainability (service prefix: sustainability) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Sustainability](#)
- [Resource types defined by AWS Sustainability](#)
- [Condition keys for AWS Sustainability](#)

## Actions defined by AWS Sustainability

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetCarbon Footprint Summary</a>	Grants permission to view the carbon footprint tool	Read			

## Resource types defined by AWS Sustainability

AWS Sustainability does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Sustainability, specify "Resource": "\*" in your policy.

## Condition keys for AWS Sustainability

Sustainability has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Systems Manager

AWS Systems Manager (service prefix: ssm) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Systems Manager](#)
- [Resource types defined by AWS Systems Manager](#)
- [Condition keys for AWS Systems Manager](#)

### Actions defined by AWS Systems Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddTagsToResource</a>	Grants permission to add or overwrite one or more tags for a specified AWS resource	Tagging	<a href="#">associati on</a>		
			<a href="#">automatio n-executi on</a>		
			<a href="#">document</a>		
			<a href="#">instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">maintenancewindow</a>		
			<a href="#">managed-instance</a>		
			<a href="#">opsitem</a>		
			<a href="#">opsmetadata</a>		
			<a href="#">parameter</a>		
			<a href="#">patchbaseline</a>		
			<a href="#">task</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">AssociateOpsItemRelatedItem</a>	Grants permission to associate RelatedItem to an OpsItem	Write	<a href="#">opsitem*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelCommand</a>	Grants permission to cancel a specified Run Command command	Write			
<a href="#">CancelMaintenanceWindowExecution</a>	Grants permission to cancel an in-progress maintenance window execution	Write	<a href="#">maintenancewindow*</a>		
<a href="#">CreateActivation</a>	Grants permission to create an activation that is used to register on-premises servers and virtual machines (VMs) with Systems Manager	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAssociation</a>	Grants permission to associate a specified Systems Manager document with specified instances or other targets	Write	<a href="#">association*</a> <a href="#">document*</a> <a href="#">instance</a> <a href="#">managed-instance</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateAssociationBatch</a>	Grants permission to combine entries for multiple CreateAssociation operations in a single command	Write	<a href="#">document*</a>  <a href="#">instance</a>  <a href="#">managed-instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDocument</a>	Grants permission to create a Systems Manager SSM document	Write	<a href="#">document*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ssm:DocumentType</a>	iam:PassRole
<a href="#">CreateMaintenanceWindow</a>	Grants permission to create a maintenance window	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateOpsItem</a>	Grants permission to create an OpsItem in OpsCenter	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateOpsMetadata</a>	Grants permission to create an OpsMetadata object for an AWS resource	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreatePatchBaseline</a>	Grants permission to create a patch baseline	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateResourceDataSync</a>	Grants permission to create a resource data sync configuration, which regularly collects inventory data from managed instances and updates the data in an Amazon S3 bucket	Write	<a href="#">resourcedatasync*</a>	<a href="#">ssm:SyncType</a>	
<a href="#">DeleteActivation</a>	Grants permission to delete a specified activation for managed instances	Write			
<a href="#">DeleteAssociation</a>	Grants permission to disassociate a specified SSM document from a specified instance	Write	<a href="#">association</a> <a href="#">document</a> <a href="#">instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">managed-instance</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteDocument</a>	Grants permission to delete a specified SSM document and its instance associations	Write	<a href="#">document*</a>		
				<a href="#">ssm:DocumentType</a>	
<a href="#">DeleteInventory</a>	Grants permission to delete a specified custom inventory type, or the data associated with a custom inventory type	Write			
<a href="#">DeleteMaintenanceWindow</a>	Grants permission to delete a specified maintenance window	Write	<a href="#">maintenancewindow*</a>		
<a href="#">DeleteOpsItem</a>	Grants permission to delete an OpsItem	Write	<a href="#">opsitem*</a>		
<a href="#">DeleteOpsMetadata</a>	Grants permission to delete an OpsMetadata object	Write	<a href="#">opsmetadata*</a>		
<a href="#">DeleteParameter</a>	Grants permission to delete a specified SSM parameter	Write	<a href="#">parameter*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteParameters</a>	Grants permission to delete multiple specified SSM parameters	Write	<a href="#">parameter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeletePatchBaseline</a>	Grants permission to delete a specified patch baseline	Write	<a href="#">patchbaseline*</a>		
<a href="#">DeleteResourceDataSync</a>	Grants permission to delete a specified resource data sync	Write	<a href="#">resourcedatasync*</a>	<a href="#">ssm:SyncType</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a Systems Manager resource policy	Permissions management	<a href="#">document</a> <a href="#">opsitemgroup</a> <a href="#">parameter</a>		
<a href="#">DeregisterManagedInstance</a>	Grants permission to deregister a specified on-premises server or virtual machine (VM) from Systems Manager	Write	<a href="#">managed-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ssm:resourceTag/tag-key</a>	
<a href="#">DeregisterPatchBaselineForPatchGroup</a>	Grants permission to deregister a specified patch baseline from being the default patch baseline for a specified patch group	Write	<a href="#">patchbaseline*</a>		
<a href="#">DeregisterTargetFromMaintenanceWindow</a>	Grants permission to deregister a specified target from a maintenance window	Write	<a href="#">maintenancewindow*</a> <a href="#">windowtarget*</a>		
<a href="#">DeregisterTaskFromMaintenanceWindow</a>	Grants permission to deregister a specified task from a maintenance window	Write	<a href="#">maintenancewindow*</a> <a href="#">windowtask*</a>		
<a href="#">DescribeActivations</a>	Grants permission to view details about a specified managed instance activation, such as when it was created and the number of instances registered using the activation	Read			
<a href="#">DescribeAssociation</a>	Grants permission to view details about the specified association for a specified instance or target	Read	<a href="#">association</a> <a href="#">document</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">instance</a>		
			<a href="#">managed-instance</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAssociationExecutionsTargets</a>	Grants permission to view information about a specified association execution	Read	<a href="#">association*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAssociationExecutions</a>	Grants permission to view all executions for a specified association	Read	<a href="#">association*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeAutomationExecutions</a>	Grants permission to view details about all active and terminated Automation executions	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAutomationStepExecutions</a>	Grants permission to view information about all active and terminated step executions in an Automation workflow	Read	<a href="#">automation-execution*</a>		
<a href="#">DescribeAvailablePatches</a>	Grants permission to view all patches eligible to include in a patch baseline	Read			
<a href="#">DescribeDocument</a>	Grants permission to view details about a specified SSM document	Read	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	
<a href="#">DescribeDocumentParameters</a>	Grants permission to display information about SSM document parameters in the Systems Manager console (internal Systems Manager action)	Read	<a href="#">document*</a>		
<a href="#">DescribeDocumentPermissions</a>	Grants permission to view the permissions for a specified SSM document	Read	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	
<a href="#">DescribeEffectiveInstanceAssociations</a>	Grants permission to view all current associations for a specified instance	Read	<a href="#">instance*</a> <a href="#">managed-instance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeEffectivePatchesForPatchBaseline</a>	Grants permission to view details about the patches currently associated with the specified patch baseline (Windows only)	Read	<a href="#">patchbaseline*</a>		
<a href="#">DescribeInstanceAssociationsStatus</a>	Grants permission to view the status of the associations for a specified instance	Read	<a href="#">instance*</a> <a href="#">managed-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeInstanceInformation</a>	Grants permission to view details about a specified instance	Read			
<a href="#">DescribeInstancePatchStates</a>	Grants permission to view status details about patches on a specified instance	Read	<a href="#">instance*</a> <a href="#">managed-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:resourceTag/\${TagKey}</a>	
<a href="#">DescribeInstancePatchStatesForPatchGroup</a>	Grants permission to describe the high-level patch state for the instances in the specified patch group	Read			
<a href="#">DescribeInstancePatches</a>	Grants permission to view general details about the patches on a specified instance	Read	<a href="#">instance*</a>  <a href="#">managed-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:resourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInstanceProperties</a>	Grants permission to user's Amazon EC2 console to render managed instances' nodes	Read			
<a href="#">DescribeInventoryDeletions</a>	Grants permission to view details about a specified inventory deletion	Read			
<a href="#">DescribeMaintenanceWindowExecutionTaskInvocations</a>	Grants permission to view details of a specified task execution for a maintenance window	List			
<a href="#">DescribeMaintenanceWindowExecutionTasks</a>	Grants permission to view details about the tasks that ran during a specified maintenance window execution	List			
<a href="#">DescribeMaintenanceWindowExecutions</a>	Grants permission to view the executions of a specified maintenance window	List	<a href="#">maintenancewindow*</a>		
<a href="#">DescribeMaintenanceWindowSchedule</a>	Grants permission to view details about upcoming executions of a specified maintenance window	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeMaintenanceWindowTargets</a>	Grants permission to view a list of the targets associated with a specified maintenance window	List	<a href="#">maintenancewindow*</a>		
<a href="#">DescribeMaintenanceWindowTasks</a>	Grants permission to view a list of the tasks associated with a specified maintenance window	List	<a href="#">maintenancewindow*</a>		
<a href="#">DescribeMaintenanceWindows</a>	Grants permission to view information about all or specified maintenance windows	List			
<a href="#">DescribeMaintenanceWindowsForTarget</a>	Grants permission to view information about the maintenance window targets and tasks associated with a specified instance	List			
<a href="#">DescribeOpsItems</a>	Grants permission to view details about specified OpsItems	Read			
<a href="#">DescribeParameters</a>	Grants permission to view details about a specified SSM parameter	List			
<a href="#">DescribePatchBaselines</a>	Grants permission to view information about patch baselines that meet the specified criteria	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribePatchGroupState</a>	Grants permission to view aggregated status details for patches for a specified patch group	List			
<a href="#">DescribePatchGroups</a>	Grants permission to view information about the patch baseline for a specified patch group	List			
<a href="#">DescribePatchProperties</a>	Grants permission to view details of available patches for a specified operating system and patch property	List			
<a href="#">DescribeSessions</a>	Grants permission to view a list of recent Session Manager sessions that meet the specified search criteria	List			
<a href="#">DisassociateOpsItemRelatedItem</a>	Grants permission to disassociate RelatedItem from an OpsItem	Write	<a href="#">opsitem*</a>		
<a href="#">ExecuteAPI</a>	Grants permission to a Systems Manager delegated administrator to view related resource details about OpsItems across multiple AWS accounts in the AWS Management Console	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAccess Token</a>	Grants permission to return a credentials set to be used with just-in-time node access	Read	<a href="#">opsitem*</a>		
<a href="#">GetAutomationExecution</a>	Grants permission to view details of a specified Automation execution	Read	<a href="#">automation-execution*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetCalendar</a> [permission only]	Grants permission to view details of a specific calendar	Read	<a href="#">document*</a>		
<a href="#">GetCalendarState</a>	Grants permission to view the calendar state for a change calendar or a list of change calendars	Read	<a href="#">document*</a>		
<a href="#">GetCommandInvocation</a>	Grants permission to view details about the command execution of a specified invocation or plugin	Read			
<a href="#">GetConnectionStatus</a>	Grants permission to view the Session Manager connection status for a specified managed instance	Read	<a href="#">instance</a>		
			<a href="#">managed-instance</a>		
			<a href="#">task</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDefaultPatchBaseline</a>	Grants permission to view the current default patch baseline for a specified operating system type	Read	<a href="#">patchbaseline*</a>	<a href="#">ssm:resourceTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeployablePatchSnapshotForInstance</a>	Grants permission to retrieve the current patch baseline snapshot for a specified instance	Read			
<a href="#">GetDocument</a>	Grants permission to view the contents of a specified SSM document	Read	<a href="#">document*</a>	<a href="#">ssm:DocumentCategories</a> <a href="#">ssm:DocumentType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetExecutionPreview</a>	Grants permission to retrieve an existing preview that shows the effects that running a specified Automation runbook would have on the targeted resources	Read			
<a href="#">GetInstanceInventory</a>	Grants permission to view instance inventory details per the specified criteria	Read			
<a href="#">GetInstanceInventorySchema</a>	Grants permission to view a list of inventory types or attribute names for a specified inventory item type	Read			
<a href="#">GetMaintenanceWindow</a>	Grants permission to view details about a specified maintenance window	Read	<a href="#">maintenancewindow*</a>		
<a href="#">GetMaintenanceWindowExecution</a>	Grants permission to view details about a specified maintenance window execution	Read			
<a href="#">GetMaintenanceWindowExecutionTask</a>	Grants permission to view details about a specified maintenance window execution task	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMaintenanceWindowExecutionTaskInvocation</a>	Grants permission to view details about a specific maintenance window task running on a specific target	Read			
<a href="#">GetMaintenanceWindowTask</a>	Grants permission to view details about tasks registered with a specified maintenance window	Read	<a href="#">maintenancewindow*</a>		
<a href="#">GetManifest</a> [permission only]	Grants permission to Systems Manager and SSM Agent to determine package installation requirements for an instance (internal Systems Manager call)	Read			
<a href="#">GetOpsItem</a>	Grants permission to view information about a specified OpsItem	Read	<a href="#">opsitem*</a>		
<a href="#">GetOpsMetadata</a>	Grants permission to retrieve an OpsMetadata object	Read	<a href="#">opsmetadata*</a>		
<a href="#">GetOpsSummary</a>	Grants permission to view summary information about OpsItems based on specified filters and aggregators	Read	<a href="#">resourcesync*</a>		
<a href="#">GetParameter</a>	Grants permission to view information about a specified parameter	Read	<a href="#">parameter*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetParameterHistory</a>	Grants permission to view details and changes for a specified parameter	Read	<a href="#">parameter*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetParameters</a>	Grants permission to view information about multiple specified parameters	Read	<a href="#">parameter*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetParametersByPath</a>	Grants permission to view information about parameters in a specified hierarchy	Read	<a href="#">parameter*</a>		
				<a href="#">ssm:Recursive</a>	
<a href="#">GetPatchBaseline</a>	Grants permission to view information about a specified patch baseline	Read	<a href="#">patchbaseline*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPatchBaselineForPatchGroup</a>	Grants permission to view the ID of the current patch baseline for a specified patch group	Read			
<a href="#">GetResourcePolicies</a>	Grants permission to retrieve lists of Systems Manager resource policies	List	<a href="#">document</a> <a href="#">opitemgroup</a> <a href="#">parameter</a>		
<a href="#">GetServiceSetting</a>	Grants permission to view the account-level setting for an AWS service	Read	<a href="#">serviceSetting*</a>		
<a href="#">LabelParameterVersion</a>	Grants permission to apply an identifying label to a specified version of a parameter	Write	<a href="#">parameter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAssociations</a>	Grants permission to list versions of the specified association	List	<a href="#">association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAssociations</a>	Grants permission to list the associations for a specified SSM document or managed instance	List			
<a href="#">ListCommandInvocations</a>	Grants permission to list information about command invocations sent to a specified instance	List			
<a href="#">ListCommands</a>	Grants permission to list the commands sent to a specified instance	List			
<a href="#">ListComplianceItems</a>	Grants permission to list compliance status for specified resource types on a specified resource	List			
<a href="#">ListComplianceSummaries</a>	Grants permission to list a summary count of compliant and noncompliant resources for a specified compliance type	List			
<a href="#">ListDocumentMetadataHistory</a>	Grants permission to view metadata history about a specified SSM document	List	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	
<a href="#">ListDocumentVersions</a>	Grants permission to list all versions of a specified document	List	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDocuments</a>	Grants permission to view information about a specified SSM document	List			
<a href="#">ListInstanceAssociations</a>	Grants permission to SSM Agent to check for new State Manager associations (internal Systems Manager call)	List	<a href="#">instance</a> <a href="#">managed-instance</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListInventoryEntries</a>	Grants permission to view a list of specified inventory types for a specified instance	List			
<a href="#">ListNodes</a>	Grants permission to view details about managed nodes based on specified filters	List	<a href="#">resourcedatasync*</a>		
<a href="#">ListNodesSummary</a>	Grants permission to view summary information about managed nodes based on specified filters and aggregators	List	<a href="#">resourcedatasync*</a>		
<a href="#">ListOpsItemEvents</a>	Grants permission to view details about OpsItemEvents	List			
<a href="#">ListOpsItemRelatedItems</a>	Grants permission to view details about OpsItemRelatedItems	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListOpsMetadata</a>	Grants permission to view a list of OpsMetadata objects	List			
<a href="#">ListResourceComplianceSummaries</a>	Grants permission to list resource-level summary count	List			
<a href="#">ListResourceDataSync</a>	Grants permission to list information about resource data sync configurations in an account	List		<a href="#">ssm:SyncType</a>	
<a href="#">ListTagsForResource</a>	Grants permission to view a list of resource tags for a specified resource	List	<a href="#">association</a>		
			<a href="#">automation-execution</a>		
			<a href="#">document</a>		
			<a href="#">maintenancewindow</a>		
			<a href="#">managed-instance</a>		
			<a href="#">opsitem</a>		
			<a href="#">opsmetadata</a>		
			<a href="#">parameter</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">patchbaseline</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ModifyDocumentPermission</a>	Grants permission to share a custom SSM document publicly or privately with specified AWS accounts	Permissions management	<a href="#">document*</a>		
				<a href="#">ssm:DocumentType</a>	
<a href="#">PutCalendar</a> [permission only]	Grants permission to create/edit a specific calendar	Write	<a href="#">document*</a>		
<a href="#">PutComplianceItems</a>	Grants permission to register a compliance type and other compliance details on a specified resource	Write	<a href="#">instance</a>		
			<a href="#">managed-instance</a>		
				<a href="#">ssm:SourceInstanceARN</a>	
				<a href="#">ec2:SourceInstanceARN</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutConfigurePackageResult</a> [permission only]	Grants permission to SSM Agent to generate a report of the results of specific agent requests (internal Systems Manager call)	Read			
<a href="#">PutInventory</a>	Grants permission to add or update inventory items on multiple specified managed instances	Write		<a href="#">ssm:InventoryTypeName</a>	
<a href="#">PutParameter</a>	Grants permission to create an SSM parameter	Write	<a href="#">parameter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ssm:Override</a> <a href="#">ssm:Policies</a>	
<a href="#">PutResourcePolicy</a>	Grants permission to create or update a Systems Manager resource policy	Permissions management	<a href="#">document</a> <a href="#">opsitemgroup</a> <a href="#">parameter</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RegisterDefaultPatchBaseline</a>	Grants permission to specify the default patch baseline for an operating system type	Write	<a href="#">patchbaseline*</a>		
<a href="#">RegisterManagedInstance</a>	Grants permission to register a Systems Manager Agent	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RegisterPatchBaselineForPatchGroup</a>	Grants permission to specify the default patch baseline for a specified patch group	Write	<a href="#">patchbaseline*</a>		
<a href="#">RegisterTargetWithMaintenanceWindow</a>	Grants permission to register a target with a specified maintenance window	Write	<a href="#">maintenancewindow*</a>		
<a href="#">RegisterTaskWithMaintenanceWindow</a>	Grants permission to register a task with a specified maintenance window	Write	<a href="#">maintenancewindow*</a>		
<a href="#">RemoveTagsFromResource</a>	Grants permission to remove a specified tag key from a specified resource	Tagging	<a href="#">association</a> <a href="#">automation-execution</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">document</a>		
			<a href="#">instance</a>		
			<a href="#">maintenancewindow</a>		
			<a href="#">managed-instance</a>		
			<a href="#">opsitem</a>		
			<a href="#">opsmetadata</a>		
			<a href="#">parameter</a>		
			<a href="#">patchbaseline</a>		
			<a href="#">task</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ResetServiceSetting</a>	Grants permission to reset the service setting for an AWS account to the default value	Write	<a href="#">servicessetting*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ResumeSession</a>	Grants permission to reconnect a Session Manager session to a managed instance	Write	<a href="#">session*</a>	<a href="#">ssm:resourceTag/aw</a> <a href="#">s:ssmmessages:session-id</a>  <a href="#">ssm:resourceTag/aw</a> <a href="#">s:ssmmessages:target-id</a>	
<a href="#">SendAutomationSignal</a>	Grants permission to send a signal to change the current behavior or status of a specified Automation execution	Write	<a href="#">automation-execution*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">SendCommand</a>	Grants permission to run commands on one or more specified managed instances	Write	<a href="#">document*</a>  <a href="#">bucket</a>  <a href="#">instance</a>  <a href="#">managed-instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:resourceTag/\${TagKey}</a>	
<a href="#">StartAccessRequest</a>	Grants permission to start the workflow for just-in-time node access sessions	Write	<a href="#">instance</a>  <a href="#">managed-instance</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">StartAssociationsOnce</a>	Grants permission to run a specified association manually	Write	<a href="#">association*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">StartAutomationExecution</a>	Grants permission to initiate the execution of an Automation document	Write	<a href="#">automation-execution*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">document*</a>		
			<a href="#">automation-definition</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
				<a href="#">ssm:DocumentVersion</a>	
<a href="#">StartChangeRequestExecution</a>	Grants permission to initiate the execution of an Automation Change Template document	Write	<a href="#">automation-execution*</a>		
			<a href="#">document*</a>		
			<a href="#">automation-definition</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">ssm:AutoApprove</a> <a href="#">ssm:DocumentVersion</a>	
<a href="#">StartExecutionPreview</a>	Grants permission to create a preview showing the effects that running a specified Automation runbook would have on the targeted resources	Read			
<a href="#">StartSession</a>	Grants permission to initiate a connection to a specified target for a Session Manager session	Write	<a href="#">document</a> <a href="#">instance</a> <a href="#">managed-instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">task</a>	<a href="#">ssm:SessionDocumentAccessCheck</a>  <a href="#">ssm:resourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:AccessRequestId</a>	
<a href="#">StopAutomationExecution</a>	Grants permission to stop a specified Automation execution that is already in progress	Write	<a href="#">automation-execution*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TerminateSession</a>	Grants permission to permanently end a Session Manager connection to an instance	Write	<a href="#">session*</a>	<a href="#">ssm:resourceTag/awsssmmessage:session-id</a>  <a href="#">ssm:resourceTag/awsssmmessage:target-id</a>	
<a href="#">UnlabelParameterVersion</a>	Grants permission to remove an identifying label from a specified version of a parameter	Write	<a href="#">parameter*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAssociation</a>	Grants permission to update an association and immediately run the association on the specified targets	Write	<a href="#">association*</a>  <a href="#">document</a>  <a href="#">instance</a>  <a href="#">managed-instance</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateAssociationStatus</a>	Grants permission to update the status of the SSM document associated with a specified instance	Write	<a href="#">document*</a> <a href="#">instance</a> <a href="#">managed-instance</a>	<a href="#">ssm:SourceInstanceARN</a> <a href="#">ec2:SourceInstanceARN</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateDocument</a>	Grants permission to update one or more values for an SSM document	Write	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	
<a href="#">UpdateDocumentDefaultVersion</a>	Grants permission to change the default version of an SSM document	Write	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDocumentMetadata</a>	Grants permission to update the metadata of an SSM document	Write	<a href="#">document*</a>	<a href="#">ssm:DocumentType</a>	
<a href="#">UpdateInstanceAssociationStatus</a> [permission only]	Grants permission to SSM Agent to update the status of the association that it is currently running (internal Systems Manager call)	Write	<a href="#">association*</a>		
			<a href="#">instance</a>		
			<a href="#">managed-instance</a>		
				<a href="#">ssm:SourceInstanceARN</a>	
				<a href="#">ec2:SourceInstanceARN</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateInstanceInformation</a>	Grants permission to SSM Agent to send a heartbeat signal to the Systems Manager service in the cloud	Write	<a href="#">instance</a>		
			<a href="#">managed-instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">ssm:SourceInstanceARN</a> <a href="#">ec2:SourceInstanceARN</a>	
<a href="#">UpdateMaintenanceWindow</a>	Grants permission to update a specified maintenance window	Write	<a href="#">maintenancewindow*</a>		
<a href="#">UpdateMaintenanceWindowTarget</a>	Grants permission to update a specified maintenance window target	Write	<a href="#">maintenancewindow*</a> <a href="#">windowtarget*</a>		
<a href="#">UpdateMaintenanceWindowTask</a>	Grants permission to update a specified maintenance window task	Write	<a href="#">maintenancewindow*</a> <a href="#">windowtask*</a>		
<a href="#">UpdateManagedInstanceRole</a>	Grants permission to assign or change the IAM role assigned to a specified managed instance	Write	<a href="#">iam-role*</a> <a href="#">managed-instance*</a>		
				<a href="#">ssm:resourceTag/tag-key</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOpsItem</a>	Grants permission to edit or change an OpsItem	Write	<a href="#">opsitem*</a>		
<a href="#">UpdateOpsMetadata</a>	Grants permission to update an OpsMetadata object	Write	<a href="#">opsmetadata*</a>		
<a href="#">UpdatePatchBaseline</a>	Grants permission to update a specified patch baseline	Write	<a href="#">patchbaseline*</a>		
<a href="#">UpdateResourceDataSync</a>	Grants permission to update a resource data sync	Write	<a href="#">resourcedatasync*</a>	<a href="#">ssm:SyncType</a>	
<a href="#">UpdateServiceSetting</a>	Grants permission to update the service setting for an AWS account	Write	<a href="#">servicesetting*</a>		

## Resource types defined by AWS Systems Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

Some State Manager API parameters have been deprecated. This might lead to unexpected behavior. For more information, see [Working with associations using IAM](#).

Resource types	ARN	Condition keys
<a href="#">association</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:association/\${AssociationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">automation-execution</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:automation-execution/\${AutomationExecutionId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:resourceTag/tag-key</a>
<a href="#">automation-definition</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:automation-definition/\${AutomationDefinitionName}:\${VersionId}	<a href="#">ssm:DocumentType</a>
<a href="#">bucket</a>	arn:\${Partition}:s3:::\${BucketName}	
<a href="#">document</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:document/\${DocumentName}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:DocumentCategories</a> <a href="#">ssm:DocumentType</a> <a href="#">ssm:resourceTag/\${TagKey}</a>
<a href="#">iam-role</a>	arn:\${Partition}:iam::\${Account}:role/\${RoleName}	
<a href="#">instance</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:instance/\${InstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:resourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">maintenancewindow</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:maintenancewindow/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:resourceTag/tag-key</a>
<a href="#">managed-instance</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:managed-instance/\${InstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:resourceTag/tag-key</a>
<a href="#">managed-instance-inventory</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:managed-instance-inventory/\${InstanceId}	
<a href="#">opsitem</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:opsitem/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">opsitemgroup</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:opsitemgroup/default	
<a href="#">opsmetadata</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:opsmetadata/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:resourceTag/\${TagKey}</a>
<a href="#">parameter</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:parameter/\${ParameterNameWithoutLeadingSlash}	<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">ssm:resourceTag/tag-key</a>

Resource types	ARN	Condition keys
<a href="#">patchbaseline</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:patchbaseline/\${PatchBaselineIdResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:resourceTag/tag-key</a>
<a href="#">session</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:session/\${SessionId}	<a href="#">ssm:resourceTag/awsssmmessages:session-id</a>  <a href="#">ssm:resourceTag/awsssmmessages:target-id</a>
<a href="#">resourcedatasync</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:resource-data-sync/\${SyncName}	
<a href="#">servicesetting</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:servicesetting/\${ResourceId}	
<a href="#">windowtarget</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:windowtarget/\${WindowTargetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:resourceTag/tag-key</a>
<a href="#">windowtask</a>	arn:\${Partition}:ssm:\${Region}:\${Account}:windowtask/\${WindowTaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">ssm:resourceTag/tag-key</a>
<a href="#">task</a>	arn:\${Partition}:ecs:\${Region}:\${Account}:task/\${TaskId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Systems Manager

AWS Systems Manager defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by 'Create' requests based on the allowed set of values for a specified tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by based on a tag key-value pair assigned to the AWS resource	String
<a href="#">aws:TagKeys</a>	Filters access by 'Create' requests based on whether mandatory tags are included in the request	ArrayOfString
<a href="#">ec2:SourceInstanceARN</a>	Filters access by the ARN of the instance from which the request originated	ARN
<a href="#">ssm:AccessRequestId</a>	Filters access by verifying that a user has access to the access request ID specified in the request	String
<a href="#">ssm:AutoApprove</a>	Filters access by verifying that a user has permission to start Change Manager workflows without a review step (with the exception of change freeze events)	Bool
<a href="#">ssm:DocumentCategories</a>	Filters access by verifying that a user has permission to access a document belonging to a specific category enum	ArrayOfString
<a href="#">ssm:DocumentType</a>	Filters access by verifying that a user has permission to access a document belonging to a specific document	String



Condition keys	Description	Type
	type. Only available in "aws", "aws-cn", and "aws-us-gov" partitions	
<a href="#">ssm:DocumentVersion</a>	Filters access by verifying that a user has permission to access a specific version of a document	ArrayOfString
<a href="#">ssm:InventoryTypeName</a>	Filters access by verifying that a user also has access to the InventoryType specified in the request	ArrayOfString
<a href="#">ssm:Overwrite</a>	Filters access by controlling whether Systems Manager parameters can be overwritten	String
<a href="#">ssm:Policies</a>	Filters access by controlling whether an IAM Entity (user or role) can create or update a parameter that includes a parameter policy	String
<a href="#">ssm:Recursive</a>	Filters access by Systems Manager parameters created in a hierarchical structure	String
<a href="#">ssm:SessionDocumentAccessCheck</a>	Filters access by verifying that a user has permission to access either the default Session Manager configuration document or the custom configuration document specified in a request	Bool
<a href="#">ssm:SourceInstanceARN</a>	Filters access by verifying the Amazon Resource Name (ARN) of the AWS Systems Manager's managed instance from which the request is made. This key is not present when the request comes from the managed instance authenticated with an IAM role associated with EC2 instance profile	ARN
<a href="#">ssm:SyncType</a>	Filters access by verifying that a user also has access to the ResourceDataSync SyncType specified in the request	String
<a href="#">ssm:resourceTag/\${TagKey}</a>	Filters access by a tag key-value pair assigned to the Systems Manager resource	String

Condition keys	Description	Type
<a href="#">ssm:resourceTag/awssmmessages:session-id</a>	Filters access by based on a tag key-value pair assigned to the Systems Manager session resource	String
<a href="#">ssm:resourceTag/awssmmessages:target-id</a>	Filters access by based on a tag key-value pair assigned to the Systems Manager session resource	String
<a href="#">ssm:resourceTag/tag-key</a>	Filters access by based on a tag key-value pair assigned to the Systems Manager resource	String

## Actions, resources, and condition keys for AWS Systems Manager for SAP

AWS Systems Manager for SAP (service prefix: `ssm-sap`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Systems Manager for SAP](#)
- [Resource types defined by AWS Systems Manager for SAP](#)
- [Condition keys for AWS Systems Manager for SAP](#)

## Actions defined by AWS Systems Manager for SAP

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BackupDatabase</a>	Grants permission to perform backup operation on a specified database	Write			
<a href="#">DeleteResourcePermission</a>	Grants permission to delete the SSM for SAP level resource permissions associated with a SSM for SAP database resource	Permissions management			
<a href="#">DeregisterApplication</a>	Grants permission to deregister an SAP application with SSM for SAP	Write	<a href="#">application</a>		
<a href="#">GetApplication</a>	Grants permission to access information about an application registered with SSM for SAP by providing the application ID or application ARN	Read			
<a href="#">GetComponent</a>	Grants permission to access information about a component registered with SSM for SAP by providing the application ID and component ID	Read	<a href="#">component</a>		
<a href="#">GetConfigurationCheckOperation</a>	Grants permission to get the details of a configuration check operation by specifying the operation ID	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDatabase</a>	Grants permission to access information about a database registered with SSM for SAP by providing the application ID, component ID, and database ID	Read			
<a href="#">GetOperation</a>	Grants permission to access information about an operation by providing its operation ID	Read			
<a href="#">GetResourcePermission</a>	Grants permission to get the SSM for SAP level resource permissions associated with a SSM for SAP database resource	Permissions management			
<a href="#">ListApplications</a>	Grants permission to retrieve a list of all applications registered with SSM for SAP under the customer AWS account	List			
<a href="#">ListComponent</a>	Grants permission to retrieve a list of all components in the account of customer, or a specific application	List	<a href="#">application</a>		
<a href="#">ListConfigurationCheckDefinitions</a>	Grants permission to list all configuration check types supported by AWS Systems Manager for SAP	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListConfigurationCheckOperations</a>	Grants permission to list past configuration check operations	List			
<a href="#">ListDatabases</a>	Grants permission to retrieve a list of all databases in the account of customer, or a specific application	List			
<a href="#">ListOperationEvents</a>	Grants permission to retrieve a list of all operation events in a specified operation	List			
<a href="#">ListOperations</a>	Grants permission to retrieve a list of all operations in the account of customer, additional filters can be applied	List			
<a href="#">ListSubCheckResults</a>	Grants permission to list the sub-check results of a specified configuration check operation	List			
<a href="#">ListSubCheckRuleResults</a>	Grants permission to list the rules of a specified sub-check belonging to a configuration check operation	List			
<a href="#">ListTagsForResource</a>	Grants permission to list the tags on a specified resource ARN	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutResourcePermission</a>	Grants permission to add the SSM for SAP level resource permissions associated with a SSM for SAP database resource	Permissions management			
<a href="#">RegisterApplication</a>	Grants permission to registers an SAP application with SSM for SAP	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">RestoreDatabase</a>	Grants permission to restore a database from another database	Write			
<a href="#">StartApplication</a>	Grants permission to start a registered SSM for SAP application	Write	<a href="#">application</a>		
<a href="#">StartApplicationRefresh</a>	Grants permission to start an on-demand discovery of a registered SSM for SAP application	Write	<a href="#">application</a>		
<a href="#">StartConfigurationChecks</a>	Grants permission to initiate configuration check operations against a specified application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StopApplication</a>	Grants permission to stop a registered SSM for SAP application	Write	<a href="#">application</a>		
<a href="#">TagResource</a>	Grants permission to tag a specified resource ARN	Tagging	<a href="#">application</a>		
			<a href="#">component</a>		
			<a href="#">database</a>	<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a specified resource ARN	Tagging	<a href="#">application</a>		
			<a href="#">component</a>		
			<a href="#">database</a>	<a href="#">aws:TagKeys</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateApplicationSettings</a>	Grants permission to update settings of a registered SSM for SAP application	Write	<a href="#">application</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateHANABackupSettings</a>	Grants permission to update the HANA backup settings of a specified database	Write			

## Resource types defined by AWS Systems Manager for SAP

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">application</a>	arn:\${Partition}:ssm-sap:\${Region}:\${Account}:\${ApplicationType}/\${ApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">component</a>	arn:\${Partition}:ssm-sap:\${Region}:\${Account}:\${ApplicationType}/\${ApplicationId}/COMPONENT/\${ComponentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">database</a>	arn:\${Partition}:ssm-sap:\${Region}:\${Account}:\${ApplicationType}/\${ApplicationId}/DB/\${DatabaseId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Systems Manager for SAP

AWS Systems Manager for SAP defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions

under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Systems Manager GUI Connect

AWS Systems Manager GUI Connect (service prefix: `ssm-guiconnect`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Systems Manager GUI Connect](#)
- [Resource types defined by AWS Systems Manager GUI Connect](#)
- [Condition keys for AWS Systems Manager GUI Connect](#)

## Actions defined by AWS Systems Manager GUI Connect

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelConnection</a> [permission only]	Grants permission to terminate a GUI Connect connection	Write			
<a href="#">DeleteConnectionRecordingPreferences</a>	Grants permission to remove GUI Connect connection recording preferences	Write			
<a href="#">GetConnection</a> [permission only]	Grants permission to get the metadata for a GUI Connect connection	Read			
<a href="#">GetConnectionRecordingPreferences</a>	Grants permission to get GUI Connect connection recording preferences	Read			
<a href="#">ListConnections</a> [permission only]	Grants permission to list the metadata for GUI Connect connections	List			
<a href="#">StartConnection</a>	Grants permission to start a GUI Connect connection	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
[permission only]					
<a href="#">UpdateConnectionRecordingPreferences</a>	Grants permission to update GUI Connect connection recording preferences	Write			

## Resource types defined by AWS Systems Manager GUI Connect

AWS Systems Manager GUI Connect does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Systems Manager GUI Connect, specify "Resource": "\*" in your policy.

## Condition keys for AWS Systems Manager GUI Connect

GUI Connect has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Systems Manager Incident Manager

AWS Systems Manager Incident Manager (service prefix: ssm-incidents) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Systems Manager Incident Manager](#)
- [Resource types defined by AWS Systems Manager Incident Manager](#)
- [Condition keys for AWS Systems Manager Incident Manager](#)

## Actions defined by AWS Systems Manager Incident Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetIncidentFindings</a>	Grants permission to retrieve details about specified findings for an incident record	Read	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">CreateReplicationSet</a>	Grants permission to create a replication set	Write		<a href="#">aws:TagKeys</a>	iam:CreateServiceLinkedRole
				<a href="#">aws:RequestTag/\${TagKey}</a>	ssm-incidents:TagResource
<a href="#">CreateResponsePlan</a>	Grants permission to create a response plan	Write		<a href="#">aws:TagKeys</a>	iam:PassRole
				<a href="#">aws:RequestTag/\${TagKey}</a>	ssm-incidents:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTimelineEvent</a>	Grants permission to create a timeline event for an incident record	Write	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">DeleteIncidentRecord</a>	Grants permission to delete an incident record	Write	<a href="#">incident-record*</a>		
<a href="#">DeleteReplicationSet</a>	Grants permission to delete a replication set	Write	<a href="#">replication-set*</a>		
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete resource policy from a response plan	Permissions management	<a href="#">response-plan*</a>		
<a href="#">DeleteResponsePlan</a>	Grants permission to delete a response plan	Write	<a href="#">response-plan*</a>		
<a href="#">DeleteTimelineEvent</a>	Grants permission to delete a timeline event	Write	<a href="#">incident-record*</a>		
<a href="#">GetIncidentRecord</a>	Grants permission to view the contents of an incident record	Read	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">GetReplicationSet</a>	Grants permission to view the replication set	Read	<a href="#">replication-set*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetResourcePolicies</a>	Grants permission to view resource policies of a response plan	Read	<a href="#">response-plan*</a>		
<a href="#">GetResponsePlan</a>	Grants permission to view the contents of a specified response plan	Read	<a href="#">response-plan*</a>		
<a href="#">GetTimelineEvent</a>	Grants permission to view a timeline event	Read	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">ListIncidentFindings</a>	Grants permission to list findings for an incident record	List	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">ListIncidentRecords</a>	Grants permission to list the contents of all incident records	List			
<a href="#">ListRelatedItems</a>	Grants permission to list related items of an incident record	List	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">ListReplicationSets</a>	Grants permission to list all replication sets	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResponsePlans</a>	Grants permission to list all response plans	List			
<a href="#">ListTagsForResource</a>	Grants permission to view a list of resource tags for a specified resource	Read	<a href="#">incident-record</a>		
			<a href="#">replication-set</a>		
			<a href="#">response-plan</a>		
<a href="#">ListTimelineEvents</a>	Grants permission to list all timeline events for an incident record	List	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to put resource policy on a response plan	Permissions management	<a href="#">response-plan*</a>		
<a href="#">StartIncident</a>	Grants permission to start a new incident using a response plan	Write	<a href="#">response-plan*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a response plan	Tagging	<a href="#">incident-record</a>		
			<a href="#">replication-set</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">response-plan</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a response plan	Tagging	<a href="#">incident-record</a>		
			<a href="#">replication-set</a>		
			<a href="#">response-plan</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateDeletionProtection</a>	Grants permission to update replication set deletion protection	Write	<a href="#">replication-set*</a>		
<a href="#">UpdateIncidentRecord</a>	Grants permission to update the contents of an incident record	Write	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRelatedItems</a>	Grants permission to update related items of an incident record	Write	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		
<a href="#">UpdateReplicationSet</a>	Grants permission to update a replication set	Write	<a href="#">replication-set*</a>		
<a href="#">UpdateResponsePlan</a>	Grants permission to update the contents of a response plan	Write	<a href="#">response-plan*</a>		iam:PassRole  ssm-incidents:TagResource
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateTimelineEvent</a>	Grants permission to update a timeline event	Write	<a href="#">incident-record*</a>		
			<a href="#">response-plan*</a>		

## Resource types defined by AWS Systems Manager Incident Manager

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">response-plan</a>	arn:\${Partition}:ssm-incidents::\${Account}:response-plan/\${ResponsePlan}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">incident-record</a>	arn:\${Partition}:ssm-incidents::\${Account}:incident-record/\${ResponsePlan}/\${IncidentRecord}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">replication-set</a>	arn:\${Partition}:ssm-incidents::\${Account}:replication-set/\${ReplicationSet}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Systems Manager Incident Manager

AWS Systems Manager Incident Manager defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Systems Manager Incident Manager Contacts

AWS Systems Manager Incident Manager Contacts (service prefix: `ssm-contacts`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Systems Manager Incident Manager Contacts](#)
- [Resource types defined by AWS Systems Manager Incident Manager Contacts](#)
- [Condition keys for AWS Systems Manager Incident Manager Contacts](#)

## Actions defined by AWS Systems Manager Incident Manager Contacts

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptPage</a>	Grants permission to accept a page	Write	<a href="#">page*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateContactChannel</a>	Grants permission to activate a contact's contact channel	Write	<a href="#">contactchannel*</a>		
<a href="#">AssociateContact</a> [permission only]	Grants permission to use a contact in an escalation plan	Permissions management	<a href="#">contact*</a>		
<a href="#">CreateContact</a>	Grants permission to create a contact	Write	<a href="#">contact*</a>		ssm-contacts:AssociateContact
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateContactChannel</a>	Grants permission to create a contact channel for a contact	Write	<a href="#">contact*</a>		
<a href="#">CreateRotation</a>	Grants permission to create a rotation in an on-call schedule	Write	<a href="#">rotation*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateRotationOverride</a>	Grants permission to create an override for a rotation in an on-call schedule	Write	<a href="#">rotation*</a>		
<a href="#">DeactivateContactChannel</a>	Grants permission to deactivate a contact's contact channel	Write	<a href="#">contactchannel*</a>		
<a href="#">DeleteContact</a>	Grants permission to delete a contact	Write	<a href="#">contact*</a>		
<a href="#">DeleteContactChannel</a>	Grants permission to delete a contact's contact channel	Write	<a href="#">contactchannel*</a>		
<a href="#">DeleteRotation</a>	Grants permission to delete a rotation	Write	<a href="#">rotation*</a>		
<a href="#">DeleteRotationOverride</a>	Grants permission to delete a rotation's rotation override	Write	<a href="#">rotation*</a>		
<a href="#">DescribeEngagement</a>	Grants permission to describe an engagement	Read	<a href="#">engagement*</a>		
<a href="#">DescribePage</a>	Grants permission to describe a page	Read	<a href="#">page*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetContact</a>	Grants permission to get a contact	Read	<a href="#">contact*</a>		
<a href="#">GetContactChannel</a>	Grants permission to get a contact's contact channel	Read	<a href="#">contactchannel*</a>		
<a href="#">GetContactPolicy</a>	Grants permission to get a contact's resource policy	Read	<a href="#">contact*</a>		
<a href="#">GetRotation</a>	Grants permission to retrieve information about an on-call rotation	Read	<a href="#">rotation*</a>		
<a href="#">GetRotationOverride</a>	Grants permission to retrieve information about an override in an on-call rotation	Read	<a href="#">rotation*</a>		
<a href="#">ListContactChannels</a>	Grants permission to list all of a contact's contact channels	List	<a href="#">contact*</a>		
<a href="#">ListContacts</a>	Grants permission to list all contacts	List			
<a href="#">ListEngagements</a>	Grants permission to list all engagements	List			
<a href="#">ListPageReceipts</a>	Grants permission to list all receipts of a page	List	<a href="#">page*</a>		
<a href="#">ListPageResolutions</a>	Grants permission to list the resolution path of an engagement	List	<a href="#">page*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListPagesByContact</a>	Grants permission to list all pages sent to a contact	List	<a href="#">contact*</a>		
<a href="#">ListPagesByEngagement</a>	Grants permission to list all pages created in an engagement	List	<a href="#">engagement*</a>		
<a href="#">ListPreviousRotationsShifts</a>	Grants permission to retrieve a list of shifts based on rotation configuration parameters	List			
<a href="#">ListRotationOverrides</a>	Grants permission to retrieve a list of overrides currently specified for an on-call rotation	List	<a href="#">rotation*</a>		
<a href="#">ListRotationShifts</a>	Grants permission to retrieve a list of rotation shifts in an on-call schedule	List	<a href="#">rotation*</a>		
<a href="#">ListRotations</a>	Grants permission to retrieve a list of on-call rotations	List			
<a href="#">ListTagsForResource</a>	Grants permission to view a list of resource tags for a specified resource	Read	<a href="#">contact</a> <a href="#">rotation</a>		
<a href="#">PutContactPolicy</a>	Grants permission to add a resource policy to a contact	Write	<a href="#">contact*</a>		
<a href="#">SendActivationCode</a>	Grants permission to send the activation code of a contact's contact channel	Write	<a href="#">contactchannel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartEngagement</a>	Grants permission to start an engagement	Write	<a href="#">contact*</a>		
<a href="#">StopEngagement</a>	Grants permission to stop an engagement	Write	<a href="#">engagement*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the specified resource	Tagging	<a href="#">contact</a>		
			<a href="#">rotation</a>		
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified resource	Tagging	<a href="#">contact</a>		
			<a href="#">rotation</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UpdateContact</a>	Grants permission to update a contact	Write	<a href="#">contact*</a>		ssm-contacts:AssociateContact
<a href="#">UpdateContactChannel</a>	Grants permission to update a contact's contact channel	Write	<a href="#">contactchannel*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRotation</a>	Grants permission to update the information specified for an on-call rotation	Write	<a href="#">rotation*</a>		

## Resource types defined by AWS Systems Manager Incident Manager Contacts

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">contact</a>	arn:\${Partition}:ssm-contacts:\${Region}:\${Account}:contact/\${ContactAliases}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">contactchannel</a>	arn:\${Partition}:ssm-contacts:\${Region}:\${Account}:contactchannel/\${ContactAlias}/\${ContactChannelId}	
<a href="#">engagement</a>	arn:\${Partition}:ssm-contacts:\${Region}:\${Account}:engagement/\${ContactAlias}/\${EngagementId}	
<a href="#">page</a>	arn:\${Partition}:ssm-contacts:\${Region}:\${Account}:page/\${ContactAlias}/\${PageId}	

Resource types	ARN	Condition keys
<a href="#">rotation</a>	arn:\${Partition}:ssm-contacts:\${Region}:\${Account}:rotation/\${RotationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Systems Manager Incident Manager Contacts

AWS Systems Manager Incident Manager Contacts defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Systems Manager Quick Setup

AWS Systems Manager Quick Setup (service prefix: `ssm-quicksetup`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Systems Manager Quick Setup](#)
- [Resource types defined by AWS Systems Manager Quick Setup](#)
- [Condition keys for AWS Systems Manager Quick Setup](#)

## Actions defined by AWS Systems Manager Quick Setup

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConfigurationManager</a>	Grants permission to create a Quick Setup configuration manager resource	Write	<a href="#">configuration-manager*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DeleteConfigurationManager</a>	Grants permission to delete a configuration manager	Write	<a href="#">configuration-manager*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetConfiguration</a>	Grants permission to get Quick Setup configuration	Read	<a href="#">configuration-manager</a>		
<a href="#">GetConfigurationManager</a>	Grants permission to get a configuration manager	Read	<a href="#">configuration-manager*</a>		
<a href="#">GetServiceSettings</a>	Grants permission to get settings configured for Quick Setup in the requesting AWS account and AWS Region	Read			
<a href="#">ListConfigurationManagers</a>	Grants permission to list Quick Setup configuration managers	List			
<a href="#">ListConfigurations</a>	Grants permission to list Quick Setup configurations	List	<a href="#">configuration-manager</a>		
<a href="#">ListQuickSetupTypes</a>	Grants permission to list the available Quick Setup types	Read			
<a href="#">ListTagsForResource</a>	Grants permission to list tags assigned to the resource	Read	<a href="#">configuration-manager*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to Assign key-value pairs of metadata to AWS resources	Tagging	<a href="#">configuration-manager*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified resource	Tagging	<a href="#">configuration-manager*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateConfigurationDefinition</a>	Grants permission to update a Quick Setup configuration definition	Write	<a href="#">configuration-manager*</a>		
<a href="#">UpdateConfigurationManager</a>	Grants permission to update a Quick Setup configuration manager	Write	<a href="#">configuration-manager*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateServiceSettings</a>	Grants permission to update settings configured for Quick Setup	Write			

## Resource types defined by AWS Systems Manager Quick Setup

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">configuration-manager</a>	arn:\${Partition}:ssm-quicksetup:\${Region}:\${Account}:configuration-manager/\${ConfigurationManagerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Systems Manager Quick Setup

AWS Systems Manager Quick Setup defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Tag Editor

Tag Editor (service prefix: `resource-explorer`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Tag Editor](#)
- [Resource types defined by Tag Editor](#)
- [Condition keys for Tag Editor](#)

## Actions defined by Tag Editor


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourceTypes</a> [permission only]	Grants permission to retrieve the resource types currently supported by Tag Editor	List			
<a href="#">ListResources</a> [permission only]	Grants permission to retrieve the identifiers of the resources in the AWS account	List			
<a href="#">ListTags</a> [permission only]	Grants permission to retrieve the tags attached to the specified resource identifiers	Read			tag:GetResources

## Resource types defined by Tag Editor

Tag Editor does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Tag Editor, specify "Resource": "\*" in your policy.

## Condition keys for Tag Editor

Tag Editor has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Tax Settings

AWS Tax Settings (service prefix: tax) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).

- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Tax Settings](#)
- [Resource types defined by AWS Tax Settings](#)
- [Condition keys for AWS Tax Settings](#)

## Actions defined by AWS Tax Settings

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the

permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchDeleteTaxRegistration</a>	Grants permission to batch delete tax registration data	Write			
<a href="#">BatchPutTaxRegistration</a>	Grants permission to batch update tax registrations	Write			
<a href="#">CancelDocument</a>	Grants permission to cancel documents such as withholding slips	Write			
<a href="#">CreateDocument</a>	Grants permission to upload new documents such as withholding slips	Write			
<a href="#">DeleteSupplemental</a>	Grants permission to delete supplemental tax registration data	Write			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TaxRegistration</a>					
<a href="#">DeleteTaxRegistration</a>	Grants permission to delete tax registration data	Write			
<a href="#">GetDocument</a>	Grants permission to retrieve documents such as withholding slips	Read			
<a href="#">GetDocumentUploadUrl</a>	Grants permission to retrieve a generated URL to upload documents	Read			
<a href="#">GetExemptions</a>	Grants permission to view tax exemptions data	Read			
<a href="#">GetTaxInfoReportingDocument</a> [permission only]	Grants permission to view/download tax documents/forms	Read			
<a href="#">GetTaxInheritance</a>	Grants permission to view tax inheritance status	Read			
<a href="#">GetTaxInterview</a> [permission only]	Grants permission to retrieve tax interview data	Read			
<a href="#">GetTaxRegistration</a>	Grants permission to view tax registrations data	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTaxRegistrationDocument</a>	Grants permission to download tax registration documents	Read			
<a href="#">ListDocuments</a>	Grants permission to view documents such as withholding slips	Read			
<a href="#">ListSupplementalTaxRegistrations</a>	Grants permission to view supplemental tax registrations	Read			
<a href="#">ListTaxRegistrations</a>	Grants permission to view tax registrations	Read			
<a href="#">ListWithholdingEligibleInvoices</a>	Grants permission to view eligible withholding invoices	Read			
<a href="#">PutSupplementalTaxRegistration</a>	Grants permission to update supplemental tax registrations data	Write			
<a href="#">PutTaxInheritance</a>	Grants permission to set tax inheritance	Write			
<a href="#">PutTaxInterview</a> [permission only]	Grants permission to update tax interview data	Write			
<a href="#">PutTaxRegistration</a>	Grants permission to update tax registrations data	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateExemptions</a>	Grants permission to update tax exemptions data	Write			

## Resource types defined by AWS Tax Settings

AWS Tax Settings does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Tax Settings, specify "Resource": "\*" in your policy.

## Condition keys for AWS Tax Settings

Tax Settings has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS Telco Network Builder

AWS Telco Network Builder (service prefix: tnb) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Telco Network Builder](#)
- [Resource types defined by AWS Telco Network Builder](#)
- [Condition keys for AWS Telco Network Builder](#)

## Actions defined by AWS Telco Network Builder

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelSolNetworkOperation</a>	Grants permission to cancel a network operation	Write	<a href="#">network-operation*</a>		
<a href="#">CreateSolFunctionPackage</a>	Grants permission to create a function package	Write	<a href="#">function-package*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSolNetworkInstance</a>	Grants permission to create a network instance	Write	<a href="#">network-instance*</a>		
			<a href="#">network-package*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSolNetworkPackage</a>	Grants permission to create a network package	Write	<a href="#">network-package*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteSolFunctionPackage</a>	Grants permission to delete a function package	Write	<a href="#">function-package*</a>		
<a href="#">DeleteSolNetworkInstance</a>	Grants permission to delete a network instance	Write	<a href="#">network-instance*</a>		
<a href="#">DeleteSolNetworkPackage</a>	Grants permission to delete a network package	Write	<a href="#">network-package*</a>		
<a href="#">GetSolFunctionInstance</a>	Grants permission to get a function instance	Read	<a href="#">function-instance*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolFunctionPackage</a>	Grants permission to get a function package	Read	<a href="#">function-package*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolFunctionPackageContent</a>	Grants permission to get a function package contents	Read	<a href="#">function-package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolFunctionPackageDescriptor</a>	Grants permission to get a function package descriptor	Read	<a href="#">function-package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolNetworkInstance</a>	Grants permission to get a network instance	Read	<a href="#">network-instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolNetworkOperation</a>	Grants permission to get a network operation	Read	<a href="#">network-operation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolNetworkPackage</a>	Grants permission to get a network package	Read	<a href="#">network-package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolNetworkPackageContent</a>	Grants permission to get a network package contents	Read	<a href="#">network-package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSolNetworkPackageDescriptor</a>	Grants permission to get a network package descriptor	Read	<a href="#">network-package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">InstantiateSolNetworkInstance</a>	Grants permission to instantiate a network instance	Write	<a href="#">network-instance*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListSolFunctionInstances</a>	Grants permission to list function instances	List	<a href="#">function-instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListSolFunctionPackages</a>	Grants permission to list function packages	List	<a href="#">function-package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListSolNetworkInstances</a>	Grants permission to list network instances	List	<a href="#">network-instance*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSolNetworkOperations</a>	Grants permission to list network operations	List	<a href="#">network-operation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListSolNetworkPackages</a>	Grants permission to list network packages	List	<a href="#">network-package*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags for a resource	List			
<a href="#">PutSolFunctionPackageContent</a>	Grants permission to upload function package content	Write	<a href="#">function-package*</a>		
<a href="#">PutSolNetworkPackageContent</a>	Grants permission to upload network package content	Write	<a href="#">network-package*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the specified resource	Tagging	<a href="#">function-instance</a> <a href="#">function-package</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-instance</a>		
			<a href="#">network-operation</a>		
			<a href="#">network-package</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">TerminateSolNetworkInstance</a>	Grants permission to terminate a network instance	Write	<a href="#">network-instance*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified resource	Tagging	<a href="#">function-instance</a>	<a href="#">aws:TagKeys</a>	
			<a href="#">function-package</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">network-instance</a>		
			<a href="#">network-operation</a>		
			<a href="#">network-package</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateSolFunctionPackage</a>	Grants permission to update a function package	Write	<a href="#">function-package*</a>		
<a href="#">UpdateSolNetworkInstance</a>	Grants permission to update a network instance	Write	<a href="#">function-instance*</a>		
			<a href="#">network-instance*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UpdateSolNetworkPackage</a>	Grants permission to update a network package	Write	<a href="#">network-package*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ValidateSolutionPackageContent</a>	Grants permission to validate function package content	Write	<a href="#">function-package*</a>		
<a href="#">ValidateSolutionNetworkPackageContent</a>	Grants permission to validate network package content	Write	<a href="#">network-package*</a>		

## Resource types defined by AWS Telco Network Builder

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">function-package</a>	arn:\${Partition}:tnb:\${Region}:\${Account}:function-package/\${FunctionPackageId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">network-package</a>	arn:\${Partition}:tnb:\${Region}:\${Account}:network-package/\${NetworkPackageId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">network-instance</a>	arn:\${Partition}:tnb:\${Region}:\${Account}:network-instance/\${NetworkInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">function-instance</a>	arn:\${Partition}:tnb:\${Region}:\${Account}:function-instance/\${FunctionInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">network-operation</a>	arn:\${Partition}:tnb:\${Region}:\${Account}:network-operation/\${NetworkOperationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Telco Network Builder

AWS Telco Network Builder defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by checking the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by checking tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Textract

Amazon Textract (service prefix: `textract`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

## References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Textract](#)
- [Resource types defined by Amazon Textract](#)
- [Condition keys for Amazon Textract](#)

## Actions defined by Amazon Textract

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AnalyzeDocument</a>	Grants permission to detect instances of real-world document entities within an image provided as input	Read			s3:GetObject
<a href="#">AnalyzeExpense</a>	Grants permission to detect instances of real-world document entities within an image provided as input	Read			s3:GetObject
<a href="#">AnalyzeID</a>	Grants permission to detect relevant information from	Read			s3:GetObject



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	identity documents provided as input				
<a href="#">CreateAdapter</a>	Grants permission to create an Amazon Textract adapter	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateAdapterVersion</a>	Grants permission to create an Amazon Textract adapter version	Write	<a href="#">adapter*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteAdapter</a>	Grants permission to delete an Amazon Textract adapter	Write	<a href="#">adapter*</a>		
<a href="#">DeleteAdapterVersion</a>	Grants permission to delete an Amazon Textract adapter version	Write	<a href="#">adapterversion*</a>		
<a href="#">DetectDocumentText</a>	Grants permission to detect text in document images	Read			s3:GetObject
<a href="#">GetAdapter</a>	Grants permission to get an Amazon Textract adapter	Read	<a href="#">adapter*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAdapterVersion</a>	Grants permission to get an Amazon Textract adapter version	Read	<a href="#">adapterversion*</a>		
<a href="#">GetDocumentAnalysis</a>	Grants permission to return information about a document analysis job	Read			
<a href="#">GetDocumentTextDetection</a>	Grants permission to return information about a document text detection job	Read			
<a href="#">GetExpenseAnalysis</a>	Grants permission to return information about an expense analysis job	Read			
<a href="#">GetLendingAnalysis</a>	Grants permission to retrieve page-level information regarding a lending analysis job	Read			
<a href="#">GetLendingAnalysisSummary</a>	Grants permission to retrieve summarized information regarding a lending analysis job	Read			
<a href="#">ListAdapterVersions</a>	Grants permission to list Amazon Textract adapter versions	Read			
<a href="#">ListAdapters</a>	Grants permission to list Amazon Textract adapters	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to return a list of tags associated with a resource	Read	<a href="#">adapter</a> <a href="#">adapterversion</a>		
<a href="#">StartDocumentAnalysis</a>	Grants permission to start an asynchronous job to detect instances of real-world document entities within an image or pdf provided as input	Write			s3:GetObject
<a href="#">StartDocumentTextDetection</a>	Grants permission to start an asynchronous job to detect text in document images or pdfs	Write			s3:GetObject
<a href="#">StartExpenseAnalysis</a>	Grants permission to start an asynchronous job to detect instances of invoices or receipts within an image or pdf provided as input	Write			s3:GetObject
<a href="#">StartLendingAnalysis</a>	Grants permission to start an asynchronous job for detection of entities in a lending document, takes a provided image or PDF as input	Write			s3:GetObject
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">adapter</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">adapterversion</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">adapter</a>		
			<a href="#">adapterversion</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAdapter</a>	Grants permission to update Amazon Textract adapter	Write	<a href="#">adapter*</a>		

## Resource types defined by Amazon Textract

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">adapter</a>	arn:\${Partition}:textract:\${Region}:\${Account}:/adapters/\${AdapterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">adapterversion</a>	arn:\${Partition}:textract:\${Region}:\${Account}:/adapters/\${AdapterId}/versions/\${AdapterVersion}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Textract

Amazon Textract defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Timestream

Amazon Timestream (service prefix: `timestream`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon Timestream](#)
- [Resource types defined by Amazon Timestream](#)
- [Condition keys for Amazon Timestream](#)

## Actions defined by Amazon Timestream


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CancelQuery</a>	Grants permission to cancel queries in your account	Write			timestream:DescribeEndpoints
<a href="#">CreateBatchLoadTask</a>	Grants permission to create a batch load task in your account	Write	<a href="#">table*</a>		timestream:DescribeEndpoints  timestream:WriteRecords
<a href="#">CreateDatabase</a>	Grants permission to create a database in your account	Write	<a href="#">database*</a>		timestream:Describe

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					eEndpoint s
				<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:TagKe ys</a>	
<a href="#">CreateSch eduledQuery</a>	Grants permission to create a scheduled query in your account	Write		<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:TagKe ys</a>	iam:PassR ole  timestrea m:Describ eEndpoint s
<a href="#">CreateTable</a>	Grants permission to create a table in your account	Write	<a href="#">table*</a>		timestrea m:Describ eEndpoint s
				<a href="#">aws:Reque stTag/ \${T agKey}</a>  <a href="#">aws:TagKe ys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDatabase</a>	Grants permission to delete a database in your account	Write	<a href="#">database*</a>		timestream:DescribeEndpoints
<a href="#">DeleteScheduledQuery</a>	Grants permission to delete a scheduled query in your account	Write	<a href="#">scheduled-query*</a>		timestream:DescribeEndpoints
<a href="#">DeleteTable</a>	Grants permission to delete a table in your account	Write	<a href="#">table*</a>		timestream:DescribeEndpoints
<a href="#">DescribeAccountSettings</a>	Grants permission to describe your account settings	Read			timestream:DescribeEndpoints
<a href="#">DescribeBatchLoadTask</a>	Grants permission to describe a batch load task in your account	Read			timestream:DescribeEndpoints
<a href="#">DescribeDatabase</a>	Grants permission to describe a database in your account	Read	<a href="#">database*</a>		timestream:DescribeEndpoints
<a href="#">DescribeEndpoints</a>	Grants permission to describe timestream endpoints	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeScheduledQuery</a>	Grants permission to describe a scheduled query in your account	Read	<a href="#">scheduled-query*</a>		timestream:DescribeEndpoints
<a href="#">DescribeTable</a>	Grants permission to describe a table in your account	Read	<a href="#">table*</a>		timestream:DescribeEndpoints
<a href="#">ExecuteScheduledQuery</a>	Grants permission to execute a scheduled query in your account	Write	<a href="#">scheduled-query*</a>		timestream:DescribeEndpoints
<a href="#">GetAwsBackupStatus</a>	Grants permission to get Status of a Timestream Table Backup	Read			timestream:DescribeEndpoints
<a href="#">GetAwsRestoreStatus</a>	Grants permission to get Status of a Timestream Table Restore	Read			timestream:DescribeEndpoints
<a href="#">ListBatchLoadTasks</a>	Grants permission to list batch load tasks in your account	List			timestream:DescribeEndpoints

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDatabases</a>	Grants permission to list databases in your account	List			timestream:DescribeEndpoints
<a href="#">ListMeasures</a>	Grants permission to list measures of a table in your account	List	<a href="#">table*</a>		timestream:DescribeEndpoints
<a href="#">ListScheduledQueries</a>	Grants permission to list scheduled queries in your account	List			timestream:DescribeEndpoints
<a href="#">ListTables</a>	Grants permission to list tables in your account	List	<a href="#">database*</a>		timestream:DescribeEndpoints
<a href="#">ListTagsForResource</a>	Grants permission to list tags of a resource in your account	Read	<a href="#">database*</a>		timestream:DescribeEndpoints
			<a href="#">scheduled-query*</a>		
			<a href="#">table*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PrepareQuery</a>	Grants permission to issue prepare queries	Read	<a href="#">table*</a>		timestream:DescribeEndpoints  timestream:Select
<a href="#">ResumeBatchLoadTask</a>	Grants permission to resume a batch load task in your account	Write			timestream:DescribeEndpoints  timestream:WriteRecords
<a href="#">Select</a>	Grants permission to issue 'select from table' queries	Read	<a href="#">table*</a>		timestream:DescribeEndpoints
<a href="#">SelectValues</a>	Grants permission to issue 'select 1' queries	Read			timestream:DescribeEndpoints
<a href="#">StartAwsBackupJob</a>	Grants permission to start a Backup Job for a Timestream Table	Write	<a href="#">table*</a>		timestream:DescribeEndpoints

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartAwsRestoreJob</a>	Grants permission to start Restore Job for a Backup of Timestream Table	Write	<a href="#">table*</a>		timestream:DescribeEndpoints
<a href="#">TagResource</a>	Grants permission to add tags to a resource	Tagging	<a href="#">database*</a>		timestream:DescribeEndpoints
			<a href="#">scheduled-query*</a>		
			<a href="#">table*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	<a href="#">aws:TagKeys</a>

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Unload</a>	Grants permission to issue Unload queries	Write	<a href="#">table*</a>		s3:AbortMultipartUpload s3:GetObject s3:PutObject timestream:DescribeEndpoints timestream:Select
<a href="#">UntagResource</a>	Grants permission to remove a tag from a resource	Tagging	<a href="#">database*</a>		timestream:DescribeEndpoints
			<a href="#">scheduled-query*</a>		
			<a href="#">table*</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAccountSettings</a>	Grants permission to update your account settings	Write			timestream:DescribeEndpoints
<a href="#">UpdateDatabase</a>	Grants permission to update a database in your account	Write	<a href="#">database*</a>		timestream:DescribeEndpoints
<a href="#">UpdateScheduledQuery</a>	Grants permission to update a scheduled query in your account	Write	<a href="#">scheduled-query*</a>		timestream:DescribeEndpoints
<a href="#">UpdateTable</a>	Grants permission to update a table in your account	Write	<a href="#">table*</a>		timestream:DescribeEndpoints
<a href="#">WriteRecords</a>	Grants permission to ingest data to a table in your account	Write	<a href="#">table*</a>		timestream:DescribeEndpoints

## Resource types defined by Amazon Timestream

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">database</a>	arn:\${Partition}:timestream:\${Region}:\${Account}:database/\${DatabaseName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">table</a>	arn:\${Partition}:timestream:\${Region}:\${Account}:database/\${DatabaseName}/table/\${TableName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">scheduled-query</a>	arn:\${Partition}:timestream:\${Region}:\${Account}:scheduled-query/\${ScheduledQueryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Timestream

Amazon Timestream defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString



## Actions, resources, and condition keys for Amazon Timestream InfluxDB

Amazon Timestream InfluxDB (service prefix: `timestream-influxdb`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Timestream InfluxDB](#)
- [Resource types defined by Amazon Timestream InfluxDB](#)
- [Condition keys for Amazon Timestream InfluxDB](#)

### Actions defined by Amazon Timestream InfluxDB

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDbCluster</a>	Grants permission to create a new Timestream InfluxDB Cluster	Write	<a href="#">db-parameter-group</a>	<a href="#">aws:RequestTag/</a>	timestream-influxdb:CreateDbInstance

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDbInstance</a>	Grants permission to create a new Timestream InfluxDB instance	Write	<a href="#">db-parameter-group</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateDbParameterGroup</a>	Grants permission to create a new Timestream InfluxDB parameter group	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteDbCluster</a>	Grants permission to delete a Timestream InfluxDB Cluster	Write	<a href="#">db-cluster*</a>		timestream-influxdb:DeleteDbInstance

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteDbInstance</a>	Grants permission to delete a Timestream InfluxDB instance	Write	<a href="#">db-instance*</a>		
<a href="#">GetDbCluster</a>	Grants permission to get information about a Timestream InfluxDB Cluster	Read	<a href="#">db-cluster*</a>		
<a href="#">GetDbInstance</a>	Grants permission to get information about a Timestream InfluxDB instance	Read	<a href="#">db-instance*</a>		
<a href="#">GetDbParameterGroup</a>	Grants permission to get information about a Timestream InfluxDB parameter group	Read	<a href="#">db-parameter-group*</a>		
<a href="#">ListDbClusters</a>	Grants permission to list information about all Timestream InfluxDB clusters in the account	List			
<a href="#">ListDbInstances</a>	Grants permission to list information about all Timestream InfluxDB instances in the account	List			
<a href="#">ListDbInstancesForCluster</a>	Grants permission to list information about all Timestream InfluxDB Instances belonging to a cluster	Read	<a href="#">db-cluster*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDbParameterGroups</a>	Grants permission to list information about all Timestream InfluxDB parameter groups	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Timestream InfluxDB resource	Read	<a href="#">db-cluster</a>		
			<a href="#">db-instance</a>		
			<a href="#">db-parameter-group</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">RebootDbCluster</a>	Grants permission to reboot a Timestream InfluxDB Cluster	Write	<a href="#">db-cluster*</a>		timestream-influxdb:RebootDbInstance
			<a href="#">db-instance</a>		
<a href="#">RebootDbInstance</a>	Grants permission to reboot a Timestream InfluxDB instance	Write	<a href="#">db-instance*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a Timestream InfluxDB resource	Tagging	<a href="#">db-cluster</a>		
			<a href="#">db-instance</a>		
			<a href="#">db-parameter-group</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a Timestream InfluxDB resource	Tagging	<a href="#">db-cluster</a>		
			<a href="#">db-instance</a>		
			<a href="#">db-parameter-group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">UpdateDbCluster</a>	Grants permission to update a Timestream InfluxDB Cluster	Write	<a href="#">db-cluster*</a>		timestream-influxdb:UpdateDbInstance
			<a href="#">db-parameter-group</a>		
<a href="#">UpdateDbInstance</a>	Grants permission to update a Timestream InfluxDB instance	Write	<a href="#">db-instance*</a>		
			<a href="#">db-parameter-group</a>		

## Resource types defined by Amazon Timestream InfluxDB

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">db-cluster</a>	arn:\${Partition}:timestream-influxdb:\${Region}:\${Account}:db-cluster/\${DbClusterId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">db-instance</a>	arn:\${Partition}:timestream-influxdb:\${Region}:\${Account}:db-instance/\${DbInstanceIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">db-parameter-group</a>	arn:\${Partition}:timestream-influxdb:\${Region}:\${Account}:db-parameter-group/\${DbParameterGroupIdentifier}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Timestream InfluxDB

Amazon Timestream InfluxDB defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String



Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Tiros

AWS Tiros (service prefix: `tiros`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Tiros](#)
- [Resource types defined by AWS Tiros](#)
- [Condition keys for AWS Tiros](#)

## Actions defined by AWS Tiros

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateQuery</a> [permission only]	Grants permission to create a VPC reachability query	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ExtendQuery</a> [permission only]	Grants permission to extend a VPC reachability query to include the calling principals account	Write			
<a href="#">GetQueryAnswer</a> [permission only]	Grants permission to get VPC reachability query answers	Read			
<a href="#">GetQueryExplanation</a> [permission only]	Grants permission to get VPC reachability query explanations	Read			
<a href="#">GetQueryExtensionAccounts</a> [permission only]	Grants permission to list accounts that might be useful in a new query	Read			

## Resource types defined by AWS Tiro

AWS Tiro does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Tiro, specify "Resource": "\*" in your policy.

## Condition keys for AWS Tiro

Tiro has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Transcribe

Amazon Transcribe (service prefix: `transcribe`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Transcribe](#)
- [Resource types defined by Amazon Transcribe](#)
- [Condition keys for Amazon Transcribe](#)

## Actions defined by Amazon Transcribe

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern

for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateCallAnalyticsCategory</a>	Grants permission to create an analytics category. Amazon Transcribe applies the conditions specified by your analytics categories to your call analytics jobs	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">CreateLanguageModel</a>	Grants permission to create a new custom language model	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	s3:GetObject  s3:ListBucket
<a href="#">CreateMedicalVocabulary</a>	Grants permission to create a new custom vocabulary that you can use to change the way Amazon Transcribe Medical handles transcription of an audio file	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVocabulary</a>	Grants permission to create a new custom vocabulary that you can use to change the way Amazon Transcribe handles transcription of an audio file	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">CreateVocabularyFilter</a>	Grants permission to create a new vocabulary filter that you can use to filter out words from the transcription of an audio file generated by Amazon Transcribe	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">DeleteCallAnalyticsCategory</a>	Grants permission to delete a call analytics category using its name from Amazon Transcribe	Write	<a href="#">callanalyticscategory*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteCallAnalyticsJob</a>	Grants permission to delete a previously submitted call analytics job along with any other generated results such as the transcription, models, and so on	Write	<a href="#">callanalyticsjob*</a>		
<a href="#">DeleteLanguageModel</a>	Grants permission to delete a previously created custom language model	Write	<a href="#">languagemodel*</a>		
<a href="#">DeleteMedicalScribeJob</a>	Grants permission to delete a previously submitted Medical Scribe job	Write	<a href="#">medicalscribejob*</a>		
<a href="#">DeleteMedicalTranscriptionJob</a>	Grants permission to delete a previously submitted medical transcription job	Write	<a href="#">medicaltranscriptionjob*</a>		
<a href="#">DeleteMedicalVocabulary</a>	Grants permission to delete a medical vocabulary from Amazon Transcribe	Write	<a href="#">medicalvocabulary*</a>		
<a href="#">DeleteTranscriptionJob</a>	Grants permission to delete a previously submitted transcription job along with any other generated results such as the transcription, models, and so on	Write	<a href="#">transcriptionjob*</a>		
<a href="#">DeleteVocabulary</a>	Grants permission to delete a vocabulary from Amazon Transcribe	Write	<a href="#">vocabulary*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteVocabularyFilter</a>	Grants permission to delete a vocabulary filter from Amazon Transcribe	Write	<a href="#">vocabularyfilter*</a>		
<a href="#">DescribeLanguageModel</a>	Grants permission to return information about a custom language model	Read	<a href="#">languagemodel*</a>		
<a href="#">GetCallAnalyticsCategory</a>	Grants permission to retrieve information about a call analytics category	Read	<a href="#">callanalyticcategory*</a>		
<a href="#">GetCallAnalyticsJob</a>	Grants permission to return information about a call analytics job	Read	<a href="#">callanalyticjob*</a>		
<a href="#">GetMedicalScribeJob</a>	Grants permission to return information about a Medical Scribe job	Read	<a href="#">medicalscribejob*</a>		
<a href="#">GetMedicalScribeStream</a>	Grants permission to get information about the specified AWS HealthScribe streaming session	Read			
<a href="#">GetMedicalTranscriptionJob</a>	Grants permission to return information about a medical transcription job	Read	<a href="#">medicaltranscriptionjob*</a>		
<a href="#">GetMedicalVocabulary</a>	Grants permission to get information about a medical vocabulary	Read	<a href="#">medicalvocabulary*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTranscriptionJob</a>	Grants permission to return information about a transcription job	Read	<a href="#">transcriptionjob*</a>		
<a href="#">GetVocabulary</a>	Grants permission to to get information about a vocabulary	Read	<a href="#">vocabulary*</a>		
<a href="#">GetVocabularyFilter</a>	Grants permission to get information about a vocabulary filter	Read	<a href="#">vocabularyfilter*</a>		
<a href="#">ListCallAnalyticsCategories</a>	Grants permission to list call analytics categories that has been created	List			
<a href="#">ListCallAnalyticsJobs</a>	Grants permission to list call analytics jobs with the specified status	List			
<a href="#">ListLanguageModels</a>	Grants permission to list custom language models	List			
<a href="#">ListMedicalScribeJobs</a>	Grants permission to list Medical Scribe jobs with the specified status	List			
<a href="#">ListMedicalTranscriptionJobs</a>	Grants permission to list medical transcription jobs with the specified status	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMedicalVocabularies</a>	Grants permission to return a list of medical vocabularies that match the specified criteria. If no criteria are specified, returns the entire list of vocabularies	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			
<a href="#">ListTranscriptionJobs</a>	Grants permission to list transcription jobs with the specified status	List			
<a href="#">ListVocabularies</a>	Grants permission to return a list of vocabularies that match the specified criteria. If no criteria are specified, returns the entire list of vocabularies	List			
<a href="#">ListVocabularyFilters</a>	Grants permission to return a list of vocabulary filters that match the specified criteria. If no criteria are specified, returns the at most 5 vocabulary filters	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartCallAnalyticsJob</a>	Grants permission to start an asynchronous analytics job that not only transcribes the audio recording of a caller and agent, but also returns additional insights	Write		<a href="#">transcribe:OutputEncryptionKMSKeyId</a>  <a href="#">transcribe:OutputLocation</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">StartCallAnalyticsStreamTranscription</a>	Grants permission to start a protocol where audio is streamed to Transcribe Call Analytics and the transcription results are streamed to your application	Write			
<a href="#">StartCallAnalyticsStreamTranscriptionWebSocket</a>	Grants permission to start a WebSocket where audio is streamed to Transcribe Call Analytics and the transcription results are streamed to your application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMedicalScribeJob</a>	Grants permission to start an asynchronous job to transcribe patient-clinician conversations and generates clinical notes	Write		<a href="#">transcribe:OutputBucketName</a>  <a href="#">transcribe:OutputEncryptionKMSKeyId</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">StartMedicalScribeStream</a>	Grants permission to start a bidirectional HTTP2 stream where audio is streamed to AWS HealthScribe and the transcription results are streamed to your application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMedicalStreamTranscription</a>	Grants permission to start a protocol where audio is streamed to Transcribe Medical and the transcription results are streamed to your application	Write			
<a href="#">StartMedicalStreamTranscriptionWebSocket</a>	Grants permission to start a WebSocket where audio is streamed to Transcribe Medical and the transcription results are streamed to your application	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartMedicalTranscriptionJob</a>	Grants permission to start an asynchronous job to transcribe medical speech to text	Write		<a href="#">transcribe:OutputBucketName</a>  <a href="#">transcribe:OutputEncryptionKMSKeyId</a>  <a href="#">transcribe:OutputKey</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject
<a href="#">StartStreamTranscription</a>	Grants permission to start a bidirectional HTTP2 stream to transcribe speech to text in real time	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartStreamTranscriptionWebSocket</a>	Grants permission to start a websocket stream to transcribe speech to text in real time	Write			
<a href="#">StartTranscriptionJob</a>	Grants permission to start an asynchronous job to transcribe speech to text	Write		<a href="#">transcribe:OutputBucketName</a>  <a href="#">transcribe:OutputEncryptionKMSKeyId</a>  <a href="#">transcribe:OutputKey</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	s3:GetObject



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">transcribe:OutputBucketName</a> <a href="#">transcribe:OutputEncryptionKMSKeyId</a> <a href="#">transcribe:OutputKey</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a resource with given key	Tagging		<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCallAnalyticsCategory</a>	Grants permission to update the call analytics category with new values. The UpdateCallAnalyticsCategory operation overwrites all of the existing information with the values that you provide in the request	Write	<a href="#">callanalyticscategory*</a>		
<a href="#">UpdateMedicalVocabulary</a>	Grants permission to update an existing medical vocabulary with new values. The UpdateMedicalVocabulary operation overwrites all of the existing information with the values that you provide in the request	Write	<a href="#">medicalvocabulary*</a>		s3:GetObject
<a href="#">UpdateVocabulary</a>	Grants permission to update an existing vocabulary with new values. The UpdateVocabulary operation overwrites all of the existing information with the values that you provide in the request	Write	<a href="#">vocabulary*</a>		s3:GetObject

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateVocabularyFilter</a>	Grants permission to update an existing vocabulary filter with new values. The UpdateVocabularyFilter operation overwrites all of the existing information with the values that you provide in the request	Write	<a href="#">vocabularyfilter*</a>		s3:GetObject

## Resource types defined by Amazon Transcribe

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">transcriptionjob</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:transcription-job/\${JobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vocabulary</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:vocabulary/\${VocabularyName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">vocabularyfilter</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:vocabulary-filter/\${VocabularyFilterName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">language model</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:language-model/\${ModelName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">medicaltranscriptionjob</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:medical-transcription-job/\${JobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">medicalvocabulary</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:medical-vocabulary/\${VocabularyName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">callanalyticjob</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:analytics/\${JobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">callanalyticcategory</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:analytics-category/\${CategoryName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">medicalscribejob</a>	arn:\${Partition}:transcribe:\${Region}:\${Account}:medical-scribe-job/\${JobName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Transcribe

Amazon Transcribe defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by requiring tag values present in a resource creation request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by requiring tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by requiring the presence of mandatory tags in the request	ArrayOfString
<a href="#">transcribe:OutputBucketName</a>	Filters access based on the output bucket name included in the request	String
<a href="#">transcribe:OutputEncryptionKMSKeyId</a>	Filters access based on the KMS key id included in the request, provided in the form of a KMS key ARN	String
<a href="#">transcribe:OutputKey</a>	Filters access based on the output key included in the request	String
<a href="#">transcribe:OutputLocation</a>	Filters access based on the output location included in the request	String

## Actions, resources, and condition keys for AWS Transfer Family

AWS Transfer Family (service prefix: `transfer`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Transfer Family](#)
- [Resource types defined by AWS Transfer Family](#)
- [Condition keys for AWS Transfer Family](#)

## Actions defined by AWS Transfer Family

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAccess</a>	Grants permission to add an access associated with a server	Write	<a href="#">server*</a>		iam:PassRole
<a href="#">CreateAgreement</a>	Grants permission to add an agreement associated with a server	Write	<a href="#">server*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:PassRole
<a href="#">CreateConnector</a>	Grants permission to create a connector	Write	<a href="#">profile</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">transfer:RequestConnectorProtocol</a>	
<a href="#">CreateProfile</a>	Grants permission to create a profile	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServer</a>	Grants permission to create a server	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">transfer:RequestServerEndpointType</a>  <a href="#">transfer:RequestServerDomain</a>  <a href="#">transfer:RequestServerProtocols</a>	iam:PassRole
<a href="#">CreateUser</a>	Grants permission to add a user associated with a server	Write	<a href="#">server*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateWebApp</a>	Grants permission to create a webapp	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkflow</a>	Grants permission to create a workflow	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAccess</a>	Grants permission to delete access	Write	<a href="#">server*</a>		
<a href="#">DeleteAgreement</a>	Grants permission to delete agreement	Write	<a href="#">agreement*</a>		
<a href="#">DeleteCertificate</a>	Grants permission to delete certificate	Write	<a href="#">certificate*</a>		
<a href="#">DeleteConnector</a>	Grants permission to delete connector	Write	<a href="#">connector*</a>		
<a href="#">DeleteHostKey</a>	Grants permission to delete a host key associated with a server	Write	<a href="#">host-key*</a>		
<a href="#">DeleteProfile</a>	Grants permission to delete profile	Write	<a href="#">profile*</a>		
<a href="#">DeleteServer</a>	Grants permission to delete a server	Write	<a href="#">server*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteSshPublicKey</a>	Grants permission to delete an SSH public key from a user	Write	<a href="#">user*</a>		
<a href="#">DeleteUser</a>	Grants permission to delete a user associated with a server	Write	<a href="#">user*</a>		
<a href="#">DeleteWebApp</a>	Grants permission to delete webapp	Write	<a href="#">webapp*</a>		
<a href="#">DeleteWebAppCustomization</a>	Grants permission to delete webapp customization	Write	<a href="#">webapp*</a>		
<a href="#">DeleteWorkflow</a>	Grants permission to delete a workflow	Write	<a href="#">workflow*</a>		
<a href="#">DescribeAccess</a>	Grants permission to describe an access assigned to a server	Read	<a href="#">server*</a>		
<a href="#">DescribeAgreement</a>	Grants permission to describe an agreement assigned to a server	Read	<a href="#">agreement*</a>		
<a href="#">DescribeCertificate</a>	Grants permission to describe a certificate	Read	<a href="#">certificate*</a>		
<a href="#">DescribeConnector</a>	Grants permission to describe a connector	Read	<a href="#">connector*</a>		
<a href="#">DescribeExecution</a>	Grants permission to describe an execution associated with a workflow	Read	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeHostKey</a>	Grants permission to describe a host key associated with a server	Read	<a href="#">host-key*</a>		
<a href="#">DescribeProfile</a>	Grants permission to describe a profile	Read	<a href="#">profile*</a>		
<a href="#">DescribeSecurityPolicy</a>	Grants permission to describe a security policy	Read			
<a href="#">DescribeServer</a>	Grants permission to describe a server	Read	<a href="#">server*</a>		
<a href="#">DescribeUser</a>	Grants permission to describe a user associated with a server	Read	<a href="#">user*</a>		
<a href="#">DescribeWebApp</a>	Grants permission to describe a webapp	Read	<a href="#">webapp*</a>		
<a href="#">DescribeWebAppCustomization</a>	Grants permission to describe a webapp customization	Read	<a href="#">webapp*</a>		
<a href="#">DescribeWorkflow</a>	Grants permission to describe a workflow	Read	<a href="#">workflow*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportCertificate</a>	Grants permission to add a certificate	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ImportHostKey</a>	Grants permission to add a host key to a server	Write	<a href="#">server*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ImportSshPublicKey</a>	Grants permission to add an SSH public key to a user	Write	<a href="#">user*</a>		
<a href="#">ListAccesses</a>	Grants permission to list accesses	Read	<a href="#">server*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAgreements</a>	Grants permission to list agreements	Read	<a href="#">server*</a>		
<a href="#">ListCertificates</a>	Grants permission to list certificates	Read			
<a href="#">ListConnectors</a>	Grants permission to list connectors	Read			
<a href="#">ListExecutions</a>	Grants permission to list executions associated with a workflow	Read	<a href="#">workflow*</a>		
<a href="#">ListFileTransferResults</a>	Grants permission to list file transfer statuses for connectors	Read	<a href="#">connector*</a>		
<a href="#">ListHostKeys</a>	Grants permission to list host keys associated with a server	Read	<a href="#">server*</a>		
<a href="#">ListProfiles</a>	Grants permission to list profiles	Read			
<a href="#">ListSecurityPolicies</a>	Grants permission to list security policies	List			
<a href="#">ListServers</a>	Grants permission to list servers	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an AWS Transfer Family resource	Read	<a href="#">agreement</a> <a href="#">certificate</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">connector</a>		
			<a href="#">host-key</a>		
			<a href="#">profile</a>		
			<a href="#">server</a>		
			<a href="#">user</a>		
			<a href="#">workflow</a>		
<a href="#">ListUsers</a>	Grants permission to list users associated with a server	List	<a href="#">server*</a>		
<a href="#">ListWebApps</a>	Grants permission to list webapps	List			
<a href="#">ListWorkflows</a>	Grants permission to list workflows	List			
<a href="#">SendWorkflowStepState</a>	Grants permission to send a callback for asynchronous custom steps	Write	<a href="#">workflow*</a>		
<a href="#">StartDirectoryListing</a>	Grants permission to initiate a list operation on a remote server using a connector	Write	<a href="#">connector</a> * -		
<a href="#">StartFileTransfer</a>	Grants permission to initiate a connector file transfer	Write	<a href="#">connector</a> * -		
<a href="#">StartRemoteDelete</a>	Grants permission to initiate a connector delete operation on remote server	Write	<a href="#">connector</a> * -		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartRemoteMove</a>	Grants permission to initiate a connector move operation on remote server	Write	<a href="#">connector*</a>		
<a href="#">StartServer</a>	Grants permission to start a server	Write	<a href="#">server*</a>		
<a href="#">StopServer</a>	Grants permission to stop a server	Write	<a href="#">server*</a>		
<a href="#">TagResource</a>	Grants permission to tag an AWS Transfer Family resource	Tagging	<a href="#">agreement</a>		
			<a href="#">certificate</a>		
			<a href="#">connector</a>		
			<a href="#">host-key</a>		
			<a href="#">profile</a>		
			<a href="#">server</a>		
			<a href="#">user</a>		
			<a href="#">webapp</a>		
<a href="#">workflow</a>					

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TestConnection</a>	Grants permission to test a connector's connection to remote server	Write	<a href="#">connector*</a>		
<a href="#">TestIdentityProvider</a>	Grants permission to test a server's custom identity provider	Read	<a href="#">user*</a>		
<a href="#">UntagResource</a>	Grants permission to untag an AWS Transfer Family resource	Tagging	<a href="#">agreement</a> <a href="#">certificate</a> <a href="#">connector</a> <a href="#">host-key</a> <a href="#">profile</a> <a href="#">server</a> <a href="#">user</a> <a href="#">webapp</a> <a href="#">workflow</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccess</a>	Grants permission to update access	Write			iam:PassRole
<a href="#">UpdateAgreement</a>	Grants permission to update an agreement	Write	<a href="#">agreement*</a>		iam:PassRole
<a href="#">UpdateCertificate</a>	Grants permission to update a certificate	Write	<a href="#">certificate*</a>		
<a href="#">UpdateConnector</a>	Grants permission to update a connector	Write	<a href="#">connector*</a>		iam:PassRole
			<a href="#">profile</a>		
<a href="#">UpdateHostKey</a>	Grants permission to update a host key	Write	<a href="#">host-key*</a>		
<a href="#">UpdateProfile</a>	Grants permission to update a profile	Write	<a href="#">profile*</a>		
<a href="#">UpdateServer</a>	Grants permission to update the configuration of a server	Write	<a href="#">server*</a>		iam:PassRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">transfer:RequestServerEndpointType</a>  <a href="#">transfer:RequestServerProtocols</a>	
<a href="#">UpdateUser</a>	Grants permission to update the configuration of a user	Write	<a href="#">user*</a>		iam:PassRole
<a href="#">UpdateWebApp</a>	Grants permission to update the configuration of a webapp	Write	<a href="#">webapp*</a>		iam:PassRole
<a href="#">UpdateWebAppCustomization</a>	Grants permission to update the configuration of a webapp customization	Write	<a href="#">webapp*</a>		iam:PassRole

## Resource types defined by AWS Transfer Family

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">user</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:user/\${ServerId}/\${UserName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">server</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:server/\${ServerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workflow</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:workflow/\${WorkflowId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">certificate</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:certificate/\${CertificateId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connector</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:connector/\${ConnectorId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">profile</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:profile/\${ProfileId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">agreement</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:agreement/\${ServerId}/\${AgreementId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">host-key</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:host-key/\${ServerId}/\${HostKeyId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">webapp</a>	arn:\${Partition}:transfer:\${Region}:\${Account}:webapp/\${WebAppId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Transfer Family

AWS Transfer Family defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the

policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">transfer:RequestConnectorProtocol</a>	Filters access by the connector protocol that is passed in the request	String
<a href="#">transfer:RequestServerDomain</a>	Filters access by the storage domain that is passed in the request	String
<a href="#">transfer:RequestServerEndpointType</a>	Filters access by the endpoint type that is passed in the request	String
<a href="#">transfer:RequestServerProtocols</a>	Filters access by the server protocols that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Transform

AWS Transform (service prefix: `transform`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Transform](#)
- [Resource types defined by AWS Transform](#)
- [Condition keys for AWS Transform](#)

## Actions defined by AWS Transform

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Connector Resource</a> [permission only]	Grants permission to invoke AssociateConnectorResource on AWS Transform	Write	<a href="#">connector</a> *		
<a href="#">CreateProfile</a> [permission only]	Grants permission to invoke CreateProfile on AWS Transform	Write	<a href="#">profile</a> *		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAgentRuntimeConfiguration</a> [permission only]	Grants permission to invoke DeleteAgentRuntimeConfiguration on AWS Transform	Write			
<a href="#">DeleteConnector</a> [permission only]	Grants permission to invoke DeleteConnector on AWS Transform	Write	<a href="#">connector</a> *		
<a href="#">DeleteProfile</a> [permission only]	Grants permission to invoke DeleteProfile on AWS Transform	Write	<a href="#">profile</a> *		
<a href="#">GetAccountSettings</a> [permission only]	Grants permission to invoke GetAccountSettings on AWS Transform	Read			
<a href="#">GetAgent</a> [permission only]	Grants permission to invoke GetAgent on AWS Transform	Read			
<a href="#">GetAgentRuntimeConfiguration</a> [permission only]	Grants permission to invoke GetAgentRuntimeConfiguration on AWS Transform	Read			
<a href="#">GetConnector</a> [permission only]	Grants permission to invoke GetConnector on AWS Transform	Read	<a href="#">connector</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAgents</a> [permission only]	Grants permission to invoke ListAgents on AWS Transform	Read			
<a href="#">ListConnectors</a> [permission only]	Grants permission to invoke ListConnectors on AWS Transform	List			
<a href="#">ListProfiles</a> [permission only]	Grants permission to invoke ListProfiles on AWS Transform	List			
<a href="#">ListTagsForResource</a> [permission only]	Grants permission to invoke ListTagsForResource on AWS Transform	Read	<a href="#">connector</a> *		
<a href="#">PutAgentRuntimeConfiguration</a> [permission only]	Grants permission to invoke PutAgentRuntimeConfiguration on AWS Transform	Write			
<a href="#">RejectConnector</a> [permission only]	Grants permission to invoke RejectConnector on AWS Transform	Write	<a href="#">connector</a> *		
<a href="#">TagResource</a> [permission only]	Grants permission to invoke TagResource on AWS Transform	Tagging	<a href="#">connector</a> *		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a> [permission only]	Grants permission to invoke UntagResource on AWS Transform	Tagging	<a href="#">connector*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccountSettings</a> [permission only]	Grants permission to invoke UpdateAccountSettings on AWS Transform	Write			
<a href="#">UpdateAgentAccess</a> [permission only]	Grants permission to invoke UpdateAgentAccess on AWS Transform	Write			
<a href="#">UpdateProfile</a> [permission only]	Grants permission to invoke UpdateProfile on AWS Transform	Write	<a href="#">profile*</a>		

## Resource types defined by AWS Transform

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">profile</a>	arn:\${Partition}:transform:\${Region}:\${Account}:profile/\${Identifier}	
<a href="#">connector</a>	arn:\${Partition}:transform:\${Region}:\${Account}:connector/\${WorkspaceId}/\${ConnectorId}	

## Condition keys for AWS Transform

AWS Transform defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Transform custom

AWS Transform custom (service prefix: transform-custom) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS Transform custom](#)
- [Resource types defined by AWS Transform custom](#)
- [Condition keys for AWS Transform custom](#)

## Actions defined by AWS Transform custom

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CompleteTransformationPackageUpload</a>	Grants permission to invoke CompleteTransformationPackageUpload on AWS Transform custom	Write	<a href="#">package*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ConverseStream</a>	Grants permission to invoke ConverseStream on AWS Transform custom	Write			
<a href="#">CreateCampaign</a>	Grants permission to invoke CreateCampaign on AWS Transform custom	Write	<a href="#">campaign*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTransformationPackageUrl</a>	Grants permission to invoke CreateTransformationPackageUrl on AWS Transform custom	Write	<a href="#">package*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteCampaign</a>	Grants permission to invoke DeleteCampaign on AWS Transform custom	Write	<a href="#">campaign*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteKnowledgeItem</a>	Grants permission to invoke DeleteKnowledgeItem on AWS Transform custom	Write	<a href="#">knowledge-item*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTransformationPackage</a>	Grants permission to invoke DeleteTransformationPackage on AWS Transform custom	Write	<a href="#">package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ExecuteTransformation</a>	Grants permission to invoke ExecuteTransformation on AWS Transform custom	Write	<a href="#">package*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetCampaign</a>	Grants permission to invoke GetCampaign on AWS Transform custom	Read	<a href="#">campaign*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetKnowledgeItem</a>	Grants permission to invoke GetKnowledgeItem on AWS Transform custom	Read	<a href="#">knowledge-item*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTransformationPackageUrl</a>	Grants permission to invoke GetTransformationPackageUrl on AWS Transform custom	Read	<a href="#">package*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCampaignRepositories</a>	Grants permission to invoke ListCampaignRepositories on AWS Transform custom	Read	<a href="#">campaign*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCampaigns</a>	Grants permission to invoke ListCampaign on AWS Transform custom	List			
<a href="#">ListKnowledgeItems</a>	Grants permission to invoke ListKnowledgeItems on AWS Transform custom	List			
<a href="#">ListTagsForResource</a>	Grants permission to invoke ListTagsForResource on AWS Transform custom	Read			
<a href="#">ListTransformationPackageMetadata</a>	Grants permission to invoke ListTransformationPackageMetadata on AWS Transform custom	List			
<a href="#">TagResource</a>	Grants permission to invoke TagResource on AWS Transform custom	Tagging	<a href="#">campaign</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">knowledge-item</a>		
			<a href="#">package</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to invoke UntagResource on AWS Transform custom	Tagging	<a href="#">campaign</a>		
			<a href="#">knowledge-item</a>		
			<a href="#">package</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateCampaign</a>	Grants permission to invoke UpdateCampaign on AWS Transform custom	Write	<a href="#">campaign*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateCampaignRepositoryStatus</a>	Grants permission to invoke UpdateCampaignRepositories on AWS Transform custom	Write	<a href="#">campaign*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateKnowledgeItemConfiguration</a>	Grants permission to invoke UpdateKnowledgeItemConfiguration on AWS Transform custom	Write	<a href="#">package*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateKnowledgeItemStatus</a>	Grants permission to invoke UpdateKnowledgeItemStatus on AWS Transform custom	Write	<a href="#">knowledge-item*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Transform custom

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">campaign</a>	arn:\${Partition}:transform-custom:\${Region}:\${Account}:campaign/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">knowledge-item</a>	arn:\${Partition}:transform-custom:\${Region}:\${Account}:package/\${TransformationPackageName}/knowledge-item/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">package</a>	arn:\${Partition}:transform-custom:\${Region}:\${Account}:package/\${Name}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Transform custom

AWS Transform custom defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon Translate

Amazon Translate (service prefix: `translate`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Translate](#)
- [Resource types defined by Amazon Translate](#)
- [Condition keys for Amazon Translate](#)

## Actions defined by Amazon Translate

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateParallelData</a>	Grants permission to create a Parallel Data	Write	<a href="#">parallel-data</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteParallelData</a>	Grants permission to delete a Parallel Data	Write	<a href="#">parallel-data</a>		
<a href="#">DeleteTerminology</a>	Grants permission to delete a terminology	Write	<a href="#">terminology</a>		
<a href="#">DescribeTextTranslationJob</a>	Grants permission to get the properties associated with an asynchronous batch translation job	Read			
<a href="#">GetParallelData</a>	Grants permission to get a Parallel Data	Read	<a href="#">parallel-data</a>		
<a href="#">GetTerminology</a>	Grants permission to retrieve a terminology	Read	<a href="#">terminology</a>		
<a href="#">ImportTerminology</a>	Grants permission to create or update a terminology, depending on whether or not one already exists for the given terminology name	Write	<a href="#">terminology</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListLanguages</a>	Grants permission to list supported languages	List			
<a href="#">ListParallelData</a>	Grants permission to list Parallel Data associated with your account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">parallel-data</a> <a href="#">terminology</a>		
<a href="#">ListTerminologies</a>	Grants permission to list terminologies associated with your account	List			
<a href="#">ListTextTranslationJobs</a>	Grants permission to list batch translation jobs that you have submitted	List			
<a href="#">StartTextTranslationJob</a>	Grants permission to start an asynchronous batch translation job. Batch translation jobs can be used to translate large volumes of text across multiple documents at once	Write	<a href="#">parallel-data</a> <a href="#">terminology</a>		
<a href="#">StopTextTranslationJob</a>	Grants permission to stop an asynchronous batch translation job that is in progress	Write			
<a href="#">TagResource</a>	Grants permission to tag a resource with given key value pairs	Tagging	<a href="#">parallel-data</a> <a href="#">terminology</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">TranslateDocument</a>	Grants permission to translate a document from a source language to a target language	Read	<a href="#">terminology</a>		
<a href="#">TranslateText</a>	Grants permission to translate text from a source language to a target language	Read	<a href="#">parallel-data</a> <a href="#">terminology</a>		
<a href="#">UntagResource</a>	Grants permission to untag a resource with given key	Tagging	<a href="#">parallel-data</a> <a href="#">terminology</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateParallelData</a>	Grants permission to update an existing Parallel Data	Write	<a href="#">parallel-data</a>		

## Resource types defined by Amazon Translate

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">terminology</a>	arn:\${Partition}:translate:\${Region}:\${Account}:terminology/\${ResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">parallel-data</a>	arn:\${Partition}:translate:\${Region}:\${Account}:parallel-data/\${ResourceName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Translate

Amazon Translate defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by requiring tag values present in a resource creation request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by requiring tag value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by requiring the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS Trusted Advisor

AWS Trusted Advisor (service prefix: `trustedadvisor`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Trusted Advisor](#)
- [Resource types defined by AWS Trusted Advisor](#)
- [Condition keys for AWS Trusted Advisor](#)

### Actions defined by AWS Trusted Advisor

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

### Note

The IAM Trusted Advisor policy description details apply only to the Trusted Advisor console. If you want to manage programmatic access to Trusted Advisor, use the Trusted Advisor operations in the AWS Support API.

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchUpdateRecommendationRe</a>	Grants permission to update one or more exclusion status	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">sourceExclusion</a>	for a list of recommendation resources				
<a href="#">CreateEngagement</a>	Grants permission to create an engagement	Write			
<a href="#">CreateEngagementAttachment</a>	Grants permission to create an engagement attachment	Write			
<a href="#">CreateEngagementCommunication</a>	Grants permission to create an engagement communication	Write			
<a href="#">DeleteNotificationConfigurationForDelegatedAdmin</a>	Grants permission to the organization management account to delete email notification preferences from a delegated administrator account for Trusted Advisor Priority	Write			
<a href="#">DescribeAccount</a> [permission only]	Grants permission to view the AWS Support plan and various AWS Trusted Advisor preferences	Read			
<a href="#">DescribeAccountAccess</a> [permission only]	Grants permission to view if the AWS account has enabled or disabled AWS Trusted Advisor	Read			
<a href="#">DescribeCheckItems</a>	Grants permission to view details for the check items	Read	<a href="#">checks*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeCheckRefreshStatuses</a>	Grants permission to view the refresh statuses for AWS Trusted Advisor checks	Read	<a href="#">checks*</a>		
<a href="#">DescribeCheckStatusHistoryChanges</a> [permission only]	Grants permission to view the results and changed statuses for checks in the last 30 days	Read	<a href="#">checks*</a>		
<a href="#">DescribeCheckSummaries</a>	Grants permission to view AWS Trusted Advisor check summaries	Read	<a href="#">checks*</a>		
<a href="#">DescribeChecks</a>	Grants permission to view details for AWS Trusted Advisor checks	Read			
<a href="#">DescribeNotificationConfigurations</a>	Grants permission to get your email notification preferences for Trusted Advisor Priority	Read			
<a href="#">DescribeNotificationPreferences</a> [permission only]	Grants permission to view the notification preferences for the AWS account	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeOrganization</a> [permission only]	Grants permission to view if the AWS account meets the requirements to enable the organizational view feature	Read			
<a href="#">DescribeOrganizationAccounts</a> [permission only]	Grants permission to view the linked AWS accounts that are in the organization	Read			
<a href="#">DescribeReports</a> [permission only]	Grants permission to view details for organizational view reports, such as the report name, runtime, date created, status, and format	Read			
<a href="#">DescribeRisk</a>	Grants permission to view risk details in AWS Trusted Advisor Priority	Read			
<a href="#">DescribeRiskResources</a>	Grants permission to view affected resources for a risk in AWS Trusted Advisor Priority	Read			
<a href="#">DescribeRisks</a>	Grants permission to view risks in AWS Trusted Advisor Priority	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeServiceMetadata</a> [permission only]	Grants permission to view information about organizational view reports, such as the AWS Regions, check categories, check names, and resource statuses	Read			
<a href="#">DownloadRisk</a>	Grants permission to download a file that contains details about the risk in AWS Trusted Advisor Priority	Read			
<a href="#">ExcludeChecksItems</a> [permission only]	Grants permission to exclude recommendations for AWS Trusted Advisor checks	Write	<a href="#">checks*</a>		
<a href="#">GenerateReport</a> [permission only]	Grants permission to create a report for AWS Trusted Advisor checks in your organization	Write			
<a href="#">GetEngagement</a>	Grants permission to view an engagement	Read			
<a href="#">GetEngagementAttachment</a>	Grants permission to view an engagement attachment	Read			
<a href="#">GetEngagementType</a>	Grants permission to view a specific engagement type	Read			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetOrganizationRecommendation</a>	Grants permission to get a specific recommendation within an AWS Organization's organization. This API supports only prioritized recommendations	Read			
<a href="#">GetRecommendation</a>	Grants permission to get a specific Recommendation	Read			
<a href="#">IncludeChecksItems</a> [permission only]	Grants permission to include recommendations for AWS Trusted Advisor checks	Write	<a href="#">checks*</a>		
<a href="#">ListAccountsForParent</a> [permission only]	Grants permission to view, in the Trusted Advisor console, all of the accounts in an AWS organization that are contained by a root or organizational unit (OU)	Read			
<a href="#">ListChecks</a>	Grants permission to list a filterable set of Checks	List			
<a href="#">ListEngagementCommunications</a>	Grants permission to view all communications for an engagement	Read			
<a href="#">ListEngagementTypes</a>	Grants permission to view all engagement types	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListEngagements</a>	Grants permission to view all engagements	Read			
<a href="#">ListOrganizationRecommendationAccounts</a>	Grants permission to list the accounts that own the resources for an AWS Organization aggregate recommendation. This API only supports prioritized recommendations	List			
<a href="#">ListOrganizationRecommendationResources</a>	Grants permission to list Resources of a Recommendation within an AWS Organization. This API only supports prioritized recommendations	List			
<a href="#">ListOrganizationRecommendations</a>	Grants permission to list a filterable set of Recommendations within an AWS Organization. This API only supports prioritized recommendations	List			
<a href="#">ListOrganizationalUnitsForParent</a> [permission only]	Grants permission to view, in the Trusted Advisor console, all of the organizational units (OUs) in a parent organizational unit or root	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListRecommendationResources</a>	Grants permission to list Resources of a Recommendation	List			
<a href="#">ListRecommendations</a>	Grants permission to list a filterable set of Recommendations	List			
<a href="#">ListRoots</a> [permission only]	Grants permission to view, in the Trusted Advisor console, all of the roots that are defined in an AWS organization	Read			
<a href="#">RefreshCheck</a>	Grants permission to refresh an AWS Trusted Advisor check	Write	<a href="#">checks*</a>		
<a href="#">SetAccountAccess</a> [permission only]	Grants permission to enable or disable AWS Trusted Advisor for the account	Write			
<a href="#">SetOrganizationAccess</a> [permission only]	Grants permission to enable the organizational view feature for AWS Trusted Advisor	Write			
<a href="#">UpdateEngagement</a>	Grants permission to update the details of an engagement	Write			
<a href="#">UpdateEngagementStatus</a>	Grants permission to update the status of an engagement	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotificationConfigurations</a>	Grants permission to create or update your email notification preferences for Trusted Advisor Priority	Write			
<a href="#">UpdateNotificationPreferences</a> [permission only]	Grants permission to update notification preferences for AWS Trusted Advisor	Write			
<a href="#">UpdateOrganizationRecommendationLifecycle</a>	Grants permission to update the lifecycle of a Recommendation within an AWS Organization. This API only supports prioritized recommendations	Write			
<a href="#">UpdateRecommendationLifecycle</a>	Grants permission to update the lifecycle of a Recommendation. This API only supports prioritized recommendations	Write			
<a href="#">UpdateRiskStatus</a>	Grants permission to update the risk status in AWS Trusted Advisor Priority	Write			

## Resource types defined by AWS Trusted Advisor

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you

can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

### Note

The ARN for the checks resource type should not include a region. In the format instead of `'${Region}'` use a `*` or the policy will not work correctly.

Resource types	ARN	Condition keys
<a href="#">checks</a>	<code>arn:\${Partition}:trustedadvisor:\${Region}:\${Account}:checks/\${CategoryCode}/\${CheckId}</code>	

## Condition keys for AWS Trusted Advisor

Trusted Advisor has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS User Experience Customization

AWS User Experience Customization (service prefix: uxc) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS User Experience Customization](#)

- [Resource types defined by AWS User Experience Customization](#)
- [Condition keys for AWS User Experience Customization](#)

## Actions defined by AWS User Experience Customization

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccountColor</a>	Grants permission to delete account color setting	Write			
<a href="#">GetAccountColor</a>	Grants permission to retrieve account color for given account	Read			
<a href="#">GetAccountCustomizations</a>	Grants permission to retrieve account customizations	Read			
<a href="#">ListServices</a>	Grants permission to list available services	Read			
<a href="#">PutAccountColor</a>	Grants permission to set account color	Write			
<a href="#">UpdateAccountCustomizations</a>	Grants permission to update account customizations	Write			

## Resource types defined by AWS User Experience Customization

AWS User Experience Customization does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS User Experience Customization, specify "Resource": "\*" in your policy.

## Condition keys for AWS User Experience Customization

User Experience Customization (UXC) has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS User Notifications

AWS User Notifications (service prefix: notifications) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS User Notifications](#)
- [Resource types defined by AWS User Notifications](#)
- [Condition keys for AWS User Notifications](#)

## Actions defined by AWS User Notifications

You can specify the following actions in the Action element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of



access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateChannel</a>	Grants permission to associate a new Channel with a particular NotificationConfiguration	Write	<a href="#">NotificationConfiguration*</a>		
<a href="#">AssociateManagedNotificationAccountContact</a>	Grants permission to associate an Account contact to a particular Managed Notification Configuration	Write	<a href="#">ManagedNotificationConfiguration*</a>		
<a href="#">AssociateManagedNotificationAdditionalChannel</a>	Grants permission to associate a Channel to a particular Managed Notification Configuration	Write	<a href="#">ManagedNotificationConfiguration*</a>		
<a href="#">AssociateOrganizationalUnit</a>	Grants permission to associate an Organizational Unit to a particular Notification Configuration	Write	<a href="#">NotificationConfiguration*</a>		
<a href="#">CreateEventRule</a>	Grants permission to create a new EventRule, associating it with a NotificationConfiguration	Write			
<a href="#">CreateNotificationConfiguration</a>	Grants permission to create a NotificationConfiguration	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">DeleteEventRule</a>	Grants permission to delete an EventRule	Write	<a href="#">EventRule*</a>		
<a href="#">DeleteNotificationConfiguration</a>	Grants permission to delete a NotificationConfiguration	Write	<a href="#">NotificationConfiguration*</a>		
<a href="#">DeregisterNotificationHub</a>	Grants permission to deregister a NotificationHub	Write			
<a href="#">DisableNotificationsAccessForOrganization</a>	Grants permission to disable Service Trust for AWS User Notifications	Permissions management			organizations:DisableAWSServiceAccess
<a href="#">DisassociateChannel</a>	Grants permission to remove a Channel from a NotificationConfiguration	Write	<a href="#">NotificationConfiguration*</a>		
<a href="#">DisassociateManagedNotificationAccountContact</a>	Grants permission to remove an Account contact from a Managed Notification Configuration	Write	<a href="#">ManagedNotificationConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateManagedNotificationAdditionalChannel</a>	Grants permission to remove a Channel from a Managed Notification Configuration	Write	<a href="#">ManagedNotificationConfiguration*</a>		
<a href="#">DisassociateOrganizationalUnit</a>	Grants permission to disassociate an Organizational Unit to a particular Notification Configuration	Write	<a href="#">NotificationConfiguration*</a>		
<a href="#">EnableNotificationsAccessForOrganization</a>	Grants permission to enable Service Trust for AWS User Notifications	Permissions management			iam:CreateServiceLinkedRole  organizations:EnableAWSServiceAccess
<a href="#">GetEventRule</a>	Grants permission to get an EventRule	Read	<a href="#">EventRule*</a>		
<a href="#">GetFeatureOptInStatus</a> [permission only]	Grants permission to read the opt-in status of an AWS User Notification Service feature	Read			
<a href="#">GetManagedNotificationChildEvent</a>	Grants permission to get a Managed Notification Child Event	Read	<a href="#">ManagedNotificationChildEvent*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetManagedNotificationConfiguration</a>	Grants permission to get a Managed Notification Configuration	Read	<a href="#">ManagedNotificationConfiguration*</a>		
<a href="#">GetManagedNotificationEvent</a>	Grants permission to get a Managed NotificationEvent	Read	<a href="#">ManagedNotificationEvent*</a>		
<a href="#">GetNotificationConfiguration</a>	Grants permission to get a NotificationConfiguration	Read	<a href="#">NotificationConfiguration*</a>		
<a href="#">GetNotificationEvent</a>	Grants permission to get a NotificationEvent	Read	<a href="#">NotificationEvent*</a>		
<a href="#">GetNotificationsAccessForOrganization</a>	Grants permission to read Service Trust for AWS User Notifications	Read			
<a href="#">ListChannels</a>	Grants permission to list Channels by NotificationConfiguration	List	<a href="#">NotificationConfiguration*</a>		
<a href="#">ListEventRules</a>	Grants permission to list EventRules	List			
<a href="#">ListManagedNotificationChannelAssociations</a>	Grants permission to list Account contacts and Channels associated with a Managed Notification Configuration	List	<a href="#">ManagedNotificationConfiguration*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListManagedNotificationChildEvents</a>	Grants permission to list Managed Notification Child Events	List			
<a href="#">ListManagedNotificationConfigurations</a>	Grants permission to list Managed Notification Configurations	List			
<a href="#">ListManagedNotificationEvents</a>	Grants permission to list Managed Notification Events	List			
<a href="#">ListMemberAccounts</a>	Grants permission to list Member Accounts for a Notification Configuration	List	<a href="#">NotificationConfiguration*</a>		
<a href="#">ListNotificationConfigurations</a>	Grants permission to list NotificationConfigurations	List			
<a href="#">ListNotificationEvents</a>	Grants permission to list NotificationEvents	List			
<a href="#">ListNotificationHubs</a>	Grants permission to list NotificationHubs	List			
<a href="#">ListOrganizationalUnits</a>	Grants permission to list Organizational Units for a Notification Configuration	List	<a href="#">NotificationConfiguration*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to get tags for a resource	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutFeatureOptInStatus</a> [permission only]	Grants permission to update the opt-in status of an AWS User Notification Service feature	Write			
<a href="#">RegisterNotificationHub</a>	Grants permission to register a NotificationHub	Write			
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">NotificationConfiguration*</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">NotificationConfiguration*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateEventRule</a>	Grants permission to update an EventRule	Write	<a href="#">EventRule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNotificationConfiguration</a>	Grants permission to update a NotificationConfiguration	Write	<a href="#">NotificationConfiguration*</a>		

## Resource types defined by AWS User Notifications

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">EventRule</a>	arn:\${Partition}:notifications::\${Account}:configuration/\${NotificationConfigurationId}/rule/\${EventRuleId}	
<a href="#">NotificationConfiguration</a>	arn:\${Partition}:notifications::\${Account}:configuration/\${NotificationConfigurationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">NotificationEvent</a>	arn:\${Partition}:notifications:\${Region}:\${Account}:configuration/\${NotificationConfigurationId}/event/\${NotificationEventId}	
<a href="#">ManagedNotificationChildEvent</a>	arn:\${Partition}:notifications::\${Account}:managed-notification-configuration	



Resource types	ARN	Condition keys
	ation/category/\${Category}/sub-category/\${Subcategory}/event/\${NotificationEventId}/child-event/\${NotificationChildEventId}	
<a href="#">ManagedNotificationConfiguration</a>	arn:\${Partition}:notifications::\${Account}:managed-notification-configuration/category/\${Category}/sub-category/\${Subcategory}	
<a href="#">ManagedNotificationEvent</a>	arn:\${Partition}:notifications::\${Account}:managed-notification-configuration/category/\${Category}/sub-category/\${Subcategory}/event/\${NotificationEventId}	

## Condition keys for AWS User Notifications

AWS User Notifications defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS User Notifications Contacts

AWS User Notifications Contacts (service prefix: `notifications-contacts`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS User Notifications Contacts](#)
- [Resource types defined by AWS User Notifications Contacts](#)
- [Condition keys for AWS User Notifications Contacts](#)

## Actions defined by AWS User Notifications Contacts


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ActivateEmailContact</a>	Grants permission to activate the email contact associated with the given ARN if the provided code is valid	Write	<a href="#">EmailContactResource*</a>		
<a href="#">CreateEmailContact</a>	Grants permission to create an email contact	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteEmailContact</a>	Grants permission to delete an email contact associated with the given ARN	Write	<a href="#">EmailContactResource*</a>		
<a href="#">GetEmailContact</a>	Grants permission to get an email contact associated with the given ARN	Read	<a href="#">EmailContactResource*</a>		
<a href="#">ListEmailContacts</a>	Grants permission to list email contacts	List			
<a href="#">ListTagsForResource</a>	Grants permission to get tags for a resource	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SendActivationCode</a>	Grants permission to send an activation link to the email associated with the given ARN	Write	<a href="#">EmailContactResource*</a>		
<a href="#">TagResource</a>	Grants permission to tag a resource	Tagging	<a href="#">EmailContactResource*</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from a resource	Tagging	<a href="#">EmailContactResource*</a>		
				<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS User Notifications Contacts

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">EmailContactResource</a>	arn:\${Partition}:notifications-contacts::\${Account}:emailcontact/\${EmailContactId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS User Notifications Contacts

AWS User Notifications Contacts defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS User Subscriptions

AWS User Subscriptions (service prefix: `user-subscriptions`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).

- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by AWS User Subscriptions](#)
- [Resource types defined by AWS User Subscriptions](#)
- [Condition keys for AWS User Subscriptions](#)

## Actions defined by AWS User Subscriptions

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateClaim</a>	Grants permission to create a User subscription Claim	Write		<a href="#">user-subscriptions:CreateForSelf</a>	
<a href="#">DeleteClaim</a>	Grants permission to delete a User subscription Claim	Write			
<a href="#">ListApplicationClaims</a>	Grants permission to list all User subscription Claims for Application	List			
<a href="#">ListClaims</a>	Grants permission to list all User subscription Claims	List			
<a href="#">ListUserSubscriptions</a>	Grants permission to list all User subscriptions	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SetOverageConfig</a>	Grants permission to set a User subscription overage configuration	Write			
<a href="#">UpdateClaim</a>	Grants permission to update a User subscription Claim	Write			

## Resource types defined by AWS User Subscriptions

AWS User Subscriptions does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS User Subscriptions, specify "Resource": "\*" in your policy.

## Condition keys for AWS User Subscriptions

AWS User Subscriptions defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">user-subscriptions:CreateForSelf</a>	Filters access by only allowing creation of User subscription Claims for the caller	Bool

## Actions, resources, and condition keys for AWS Verified Access

AWS Verified Access (service prefix: `verified-access`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Verified Access](#)
- [Resource types defined by AWS Verified Access](#)
- [Condition keys for AWS Verified Access](#)

### Actions defined by AWS Verified Access

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVerifiedAccess</a> [permission only]	Grants permission to create Verified Access Instance	Write			

## Resource types defined by AWS Verified Access

AWS Verified Access does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to AWS Verified Access, specify "Resource": "\*" in your policy.

## Condition keys for AWS Verified Access

Verified Access has no service-specific context keys that can be used in the `Condition` element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon Verified Permissions

Amazon Verified Permissions (service prefix: `verifiedpermissions`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon Verified Permissions](#)
- [Resource types defined by Amazon Verified Permissions](#)
- [Condition keys for Amazon Verified Permissions](#)

## Actions defined by Amazon Verified Permissions

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a

resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateIdentitySource</a>	Grants permission to create a reference to an external identity provider (IdP) that is compatible with OpenID Connect (OIDC) authentic	Write	<a href="#">policy-store*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
	ation protocol, such as Amazon Cognito				
<a href="#">CreatePolicy</a>	Grants permission to create a Cedar policy and save it in the specified policy store	Write	<a href="#">policy-store*</a>		
<a href="#">CreatePolicyStore</a>	Grants permission to create a Cedar policy and save it in the specified policy store	Write		<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreatePolicyTemplate</a>	Grants permission to create a policy template	Write	<a href="#">policy-store*</a>		
<a href="#">DeleteIdentitySource</a>	Grants permission to delete an identity source that references an identity provider (IdP) such as Amazon Cognito	Write	<a href="#">policy-store*</a>		
<a href="#">DeletePolicy</a>	Grants permission to delete the specified policy from the policy store	Write	<a href="#">policy-store*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePolicyStore</a>	Grants permission to delete the specified policy store	Write	<a href="#">policy-store*</a>		
<a href="#">DeletePolicyTemplate</a>	Grants permission to delete the specified policy template from the policy store	Write	<a href="#">policy-store*</a>		
<a href="#">GetIdentitySource</a>	Grants permission to retrieve the details about the specified identity source	Read	<a href="#">policy-store*</a>		
<a href="#">GetPolicy</a>	Grants permission to retrieve information about the specified policy	Read	<a href="#">policy-store*</a>		
<a href="#">GetPolicyStore</a>	Grants permission to retrieve details about a policy store	Read	<a href="#">policy-store*</a>		verifiedpermissions:ListTagsForResource
<a href="#">GetPolicyTemplate</a>	Grants permission to retrieve the details for the specified policy template in the specified policy store	Read	<a href="#">policy-store*</a>		
<a href="#">GetSchema</a>	Grants permission to retrieve the details for the specified schema in the specified policy store	Read	<a href="#">policy-store*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">IsAuthorized</a>	Grants permission to make an authorization decision about a service request described in the parameters	Read	<a href="#">policy-store*</a>		
<a href="#">IsAuthorizedWithToken</a>	Grants permission to make an authorization decision about a service request described in the parameters. The principal in this request comes from an external identity source	Read	<a href="#">policy-store*</a>		
<a href="#">ListIdentitySources</a>	Grants permission to return a paginated list of all of the identity sources defined in the specified policy store	List	<a href="#">policy-store*</a>		
<a href="#">ListPolicies</a>	Grants permission to return a paginated list of all policies stored in the specified policy store	List	<a href="#">policy-store*</a>		
<a href="#">ListPolicyStores</a>	Grants permission to return a paginated list of all policy stores in the calling Amazon Web Services account	List			
<a href="#">ListPolicyTemplates</a>	Grants permission to return a paginated list of all policy templates in the specified policy store	List	<a href="#">policy-store*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to view a list of resource tags for the specified policy store	Read	<a href="#">policy-store*</a>		
<a href="#">PutSchema</a>	Grants permission to create or update the policy schema in the specified policy store	Write	<a href="#">policy-store*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to the specified policy store	Tagging	<a href="#">policy-store*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove tags from the specified policy store	Tagging	<a href="#">policy-store*</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateIdentitySource</a>	Grants permission to update the specified identity source to use a new identity provider (IdP) source, or to change the mapping of identities from the IdP to a different principal entity type	Write	<a href="#">policy-store*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdatePolicy</a>	Grants permission to modify the specified Cedar static policy in the specified policy store	Write	<a href="#">policy-store*</a>		
<a href="#">UpdatePolicyStore</a>	Grants permission to modify the validation setting for a policy store	Write	<a href="#">policy-store*</a>		
<a href="#">UpdatePolicyTemplate</a>	Grants permission to update the specified policy template	Write	<a href="#">policy-store*</a>		

## Resource types defined by Amazon Verified Permissions

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">policy-store</a>	arn:\${Partition}:verifiedpermissions:::\${Account}:policy-store/\${PolicyStoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon Verified Permissions

Amazon Verified Permissions defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions

under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag key and value pair that is allowed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by a tag key and value pair of a resource	String
<a href="#">aws:TagKeys</a>	Filters access by a list of tag keys that are allowed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon VPC Lattice

Amazon VPC Lattice (service prefix: `vpc-lattice`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon VPC Lattice](#)
- [Resource types defined by Amazon VPC Lattice](#)
- [Condition keys for Amazon VPC Lattice](#)

## Actions defined by Amazon VPC Lattice

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateViaAWSService</a> [permission only]	Grants permission to associate a resource configuration through any AWS service managed networks	Permissions management			
<a href="#">AssociateViaAWSService-EventsAndStates</a> [permission only]	Grants permission to associate a resource configuration through Amazon EventBridge and AWS Step Functions service networks	Permissions management			
<a href="#">CreateAccessLogSubscription</a>	Grants permission to create an access log subscription	Write	<a href="#">AccessLogSubscription*</a>		logs:CreateLogDelivery  logs:GetLogDelivery
			<a href="#">ResourceConfiguration</a>		
			<a href="#">Service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ServiceNetwork</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateListener</a>	Grants permission to create a listener	Write	<a href="#">Listener*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:Protocol</a> <a href="#">vpc-lattice:TargetGroupArns</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateResourceConfiguration</a>	Grants permission to create a resource configuration	Write	<a href="#">DomainVerification</a> <a href="#">ResourceConfiguration</a> <a href="#">ResourceGateway</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateResourceGateway</a>	Grants permission to create a resource gateway	Write	<a href="#">ResourceGateway*</a>		ec2:DescribeSecurityGroups ec2:DescribeSubnets ec2:DescribeVpcs



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:Vpclid</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateRule</a>	Grants permission to create a rule	Write	<a href="#">Rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:TargetGroupArns</a> <a href="#">vpc-lattice:CreateAction</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateService</a>	Grants permission to create a service	Write	<a href="#">Service*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:AuthType</a> <a href="#">vpc-lattice:CreateAction</a>	iam:CreateServiceLinkedRole
<a href="#">CreateServiceNetwork</a>	Grants permission to create a service network	Write	<a href="#">ServiceNetwork*</a>		iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:AuthType</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateServiceNetworkResourceAssociation</a>	Grants permission to create an association between a service network and a resource	Write	<a href="#">ResourceConfiguration*</a> <a href="#">ServiceNetwork*</a> <a href="#">ServiceNetworkResourceAssociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:ResourceConfigurationArn</a> <a href="#">vpc-lattice:ServiceNetworkArn</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateServiceNetworkServiceAssociation</a>	Grants permission to create a service network and service association	Write	<a href="#">Service*</a> <a href="#">ServiceNetwork*</a> <a href="#">ServiceNetworkServiceAssociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:ServiceArn</a> <a href="#">vpc-lattice:ServiceNetworkArn</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateServiceNetworkVpcAssociation</a>	Grants permission to create a service network and VPC association	Write	<a href="#">ServiceNetwork*</a> <a href="#">ServiceNetworkVpcAssociation*</a>		ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:PrivateDnsPreference</a> <a href="#">vpc-lattice:PrivateDnsSpecifiedDomains</a> <a href="#">vpc-lattice:SecurityGroups</a> <a href="#">vpc-lattice:ServiceNetwork</a> <a href="#">vpc-lattice:VpcId</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateServiceNetworkVpcEndpointAssociation</a> [permission only]	Grants permission to create an association between a service network and VPC endpoint	Permissions management		<a href="#">vpc-lattice:CreateAction</a>	
<a href="#">CreateTargetGroup</a>	Grants permission to create a target group	Write	<a href="#">TargetGroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:VpcId</a> <a href="#">vpc-lattice:CreateAction</a>	iam:CreateServiceLinkedRole

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccessLogSubscription</a>	Grants permission to delete an access log subscription	Write	<a href="#">AccessLogSubscription*</a>		logs:DeleteLogDelivery  logs:GetLogDelivery
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteAuthPolicy</a>	Grants permission to delete an auth policy	Permissions management	<a href="#">Service</a> <a href="#">ServiceNetwork</a>		
<a href="#">DeleteDomainVerification</a>	Grants permission to delete a domain verification	Write	<a href="#">DomainVerification*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteListener</a>	Grants permission to delete a listener	Write	<a href="#">Listener*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteResourceConfiguration</a>	Grants permission to delete a resource configuration	Write	<a href="#">ResourceConfiguration*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourceEndpointAssociation</a>	Grants permission to delete a resource endpoint association	Write	<a href="#">ResourceEndpointAssociation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourceGateway</a>	Grants permission to delete a resource gateway	Write	<a href="#">ResourceGateway*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete a resource policy	Write	<a href="#">ResourceConfiguration</a> <a href="#">Service</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ServiceNetwork</a>		
<a href="#">DeleteRule</a>	Grants permission to delete a rule	Write	<a href="#">Rule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteService</a>	Grants permission to delete a service	Write	<a href="#">Service*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteServiceNetwork</a>	Grants permission to delete a service network	Write	<a href="#">ServiceNetwork*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteServiceNetworkResourceAssociation</a>	Grants permission to delete the association between a service network and resource	Write	<a href="#">ServiceNetworkResourceAssociation*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteServiceNetworkServiceAssociation</a>	Grants permission to delete a service network service association	Write	<a href="#">ServiceNetworkServiceAssociation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">vpc-lattice:ServiceArn</a>  <a href="#">vpc-lattice:ServiceNetworkArn</a>	
<a href="#">DeleteServiceNetworkVpcAssociation</a>	Grants permission to delete a service network and VPC association	Write	<a href="#">ServiceNetworkVpcAssociation*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">vpc-lattice:ServiceNetworkArn</a> <a href="#">vpc-lattice:Vpclid</a>	
<a href="#">DeleteTargetGroup</a>	Grants permission to delete a target group	Write	<a href="#">TargetGroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeregisterTargets</a>	Grants permission to deregister targets from a target group	Write	<a href="#">TargetGroup*</a>		
<a href="#">GetAccessLogSubscription</a>	Grants permission to get information about an access log subscription	Read	<a href="#">AccessLogSubscription*</a>		logs:GetLogDelivery
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAuthPolicy</a>	Grants permission to get information about an auth policy	Read	<a href="#">Service</a> <a href="#">ServiceNetwork</a>		
<a href="#">GetDomainVerification</a>	Grants permission to get information about a domain verification	Read	<a href="#">DomainVerification*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetListener</a>	Grants permission to get information about a listener	Read	<a href="#">Listener*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetResourceConfiguration</a>	Grants permission to get information about a resource configuration	Read	<a href="#">ResourceConfiguration*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetResourceGateway</a>	Grants permission to get information about a resource gateway	Read	<a href="#">ResourceGateway*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetResourcePolicy</a>	Grants permission to get information about a resource policy	Read	<a href="#">ResourceConfiguration</a>		
			<a href="#">Service</a>		
			<a href="#">ServiceNetwork</a>		
<a href="#">GetRule</a>	Grants permission to get information about a rule	Read	<a href="#">Rule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetService</a>	Grants permission to get information about a service	Read	<a href="#">Service*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetServiceNetwork</a>	Grants permission to get information about a service network	Read	<a href="#">ServiceNetwork*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetServiceNetworkResourceAssociation</a>	Grants permission to get information about an association between a service network and resource configuration	Read	<a href="#">ServiceNetworkResourceAssociation*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetServiceNetworkServiceAssociation</a>	Grants permission to get information about a service network and service association	Read	<a href="#">ServiceNetworkServiceAssociation*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">vpc-lattice:ServiceArn</a> <a href="#">vpc-lattice:ServiceNetworkArn</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetServiceNetworkVpcAssociation</a>	Grants permission to get information about a service network and VPC association	Read	<a href="#">ServiceNetworkVpcAssociation*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">vpc-lattice:ServiceNetworkArn</a>  <a href="#">vpc-lattice:VpcId</a>	
<a href="#">GetTargetGroup</a>	Grants permission to get information about a target group	Read	<a href="#">TargetGroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListAccessLogSubscriptions</a>	Grants permission to list some or all access log subscriptions about a service network or a service	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListDomainVerifications</a>	Grants permission to list some or all domain verifications	List			
<a href="#">ListListeners</a>	Grants permission to list some or all listeners	List			
<a href="#">ListResourceConfigurations</a>	Grants permission to list some or all resource configurations	List			
<a href="#">ListResourceEndpointAssociations</a>	Grants permission to list some or all associations between a resource configuration and VPC endpoint	List		<a href="#">vpc-lattice:ResourceConfigurationArn</a>  <a href="#">vpc-lattice:VpcEndpointId</a>	
<a href="#">ListResourceGateways</a>	Grants permission to list some or all resource gateways	List			
<a href="#">ListRules</a>	Grants permission to list some or all rules	List			
<a href="#">ListServiceNetworkResourceAssociations</a>	Grants permission to list some or all associations between a service network and resource configuration	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListServiceNetworkServiceAssociations</a>	Grants permission to list some or all service network and service associations	List		<a href="#">vpc-lattice:ServiceArn</a> <a href="#">vpc-lattice:ServiceNetworkArn</a>	
<a href="#">ListServiceNetworkVpcAssociations</a>	Grants permission to list some or all service network and VPC associations	List		<a href="#">vpc-lattice:ServiceNetworkArn</a> <a href="#">vpc-lattice:VpcId</a>	
<a href="#">ListServiceNetworkVpcEndpointAssociations</a>	Grants permission to list some or all associations between a service network and VPC endpoint	List			
<a href="#">ListServiceNetworks</a>	Grants permission to list the service networks owned by a caller account or shared with the caller account	List			
<a href="#">ListServices</a>	Grants permission to list the services owned by a caller account or shared with the caller account	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a vpc-lattice resource	Read			
<a href="#">ListTargetGroups</a>	Grants permission to list some or all target groups	List			
<a href="#">ListTargets</a>	Grants permission to list some or all targets in a target group	List	<a href="#">TargetGroup*</a>		
<a href="#">PutAuthPolicy</a>	Grants permission to create or update the auth policy for a service network or a service	Permissions management	<a href="#">Service</a> <a href="#">ServiceNetwork</a>		
<a href="#">PutResourcePolicy</a>	Grants permission to create a resource policy for a resource configuration, service, or service network	Write	<a href="#">ResourceConfiguration</a> <a href="#">Service</a> <a href="#">ServiceNetwork</a>		
<a href="#">RegisterTargets</a>	Grants permission to register targets to a target group	Write	<a href="#">TargetGroup*</a>		
<a href="#">StartDomainVerification</a>	Grants permission to start a domain verification	Write	<a href="#">DomainVerification*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:DomainName</a> <a href="#">vpc-lattice:CreateAction</a>	
<a href="#">TagResource</a>	Grants permission to tag a vpc-lattice resource	Tagging	<a href="#">AccessLogSubscription</a> <a href="#">DomainVerification</a> <a href="#">Listener</a> <a href="#">ResourceConfiguration</a> <a href="#">ResourceEndpointAssociation</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">ResourceGateway</a>		
			<a href="#">Rule</a>		
			<a href="#">Service</a>		
			<a href="#">ServiceNetwork</a>		
			<a href="#">ServiceNetworkResourceAssociation</a>		
			<a href="#">ServiceNetworkServiceAssociation</a>		
			<a href="#">ServiceNetworkVpcAssociation</a>		
			<a href="#">TargetGroup</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to untag a vpc-lattice resource	Tagging	<a href="#">AccessLogSubscription</a> <a href="#">DomainVerification</a> <a href="#">Listener</a> <a href="#">ResourceConfiguration</a> <a href="#">ResourceEndpointAssociation</a> <a href="#">ResourceGateway</a> <a href="#">Rule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">Service</a>		
			<a href="#">ServiceNetwork</a>		
			<a href="#">ServiceNetworkResourceAssociation</a>		
			<a href="#">ServiceNetworkServiceAssociation</a>		
			<a href="#">ServiceNetworkVpcAssociation</a>		
			<a href="#">TargetGroup</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAccessLogSubscription</a>	Grants permission to update an access log subscription	Write	<a href="#">AccessLogSubscription*</a>		logs:GetLogDelivery  logs:UpdateLogDelivery

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateListener</a>	Grants permission to update a listener	Write	<a href="#">Listener*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">vpc-lattice:TargetGroupArns</a>	
<a href="#">UpdateResourceConfiguration</a>	Grants permission to update a resource configuration	Write	<a href="#">ResourceConfiguration*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateResourceGateway</a>	Grants permission to update a resource gateway	Write	<a href="#">ResourceGateway*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">vpc-lattice:SecurityGroupIds</a>	
<a href="#">UpdateRule</a>	Grants permission to update a rule	Write	<a href="#">Rule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">vpc-lattice:TargetGroupArns</a>	
<a href="#">UpdateService</a>	Grants permission to update a service	Write	<a href="#">Service*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">vpc-lattice:AuthType</a>	
<a href="#">UpdateServiceNetwork</a>	Grants permission to update a service network	Write	<a href="#">ServiceNetwork*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">vpc-lattice:AuthType</a>	
<a href="#">UpdateServiceNetworkVpcAssociation</a>	Grants permission to update a service network and VPC association	Write	<a href="#">ServiceNetworkVpcAssociation*</a>		ec2:DescribeSecurityGroups  ec2:DescribeVpcs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:SecurityGroups</a> <a href="#">vpc-lattice:ServiceNetworkArn</a> <a href="#">vpc-lattice:VpcId</a>	
<a href="#">UpdateTargetGroup</a>	Grants permission to update a target group	Write	<a href="#">TargetGroup*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon VPC Lattice

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types

that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">AccessLog Subscription</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:accesslogsubscription/\${AccessLogSubscriptionId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a>
<a href="#">DomainVerification</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:domainverification/\${DomainVerificationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:DomainName</a>
<a href="#">Listener</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:service/\${ServiceId}/listener/\${ListenerId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>

Resource types	ARN	Condition keys
		<a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:Protocol</a> <a href="#">vpc-lattice:TargetGroupArns</a>
<a href="#">ResourceConfiguration</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:resourceconfiguration/\${ResourceConfigurationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a>
<a href="#">ResourceEndpointAssociation</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:resourceendpointassociation/\${ResourceEndpointAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:ResourceConfigurationArn</a> <a href="#">vpc-lattice:VpcEndpointId</a>

Resource types	ARN	Condition keys
<a href="#">ResourceGateway</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:resourcegateway/\${ResourceGatewayId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:VpcId</a>
<a href="#">Rule</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:service/\${ServiceId}/listener/\${ListenerId}/rule/\${RuleId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:TargetGroupArns</a>

Resource types	ARN	Condition keys
<a href="#">Service</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:service/\${ServiceId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:AuthType</a> <a href="#">vpc-lattice:CreateAction</a>
<a href="#">ServiceNetwork</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:servicenetwork/\${ServiceNetworkId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:AuthType</a> <a href="#">vpc-lattice:CreateAction</a>

Resource types	ARN	Condition keys
<a href="#">ServiceNetworkResourceAssociation</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:servicenetworkresourceassociation/\${ServiceNetworkResourceAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:ResourceConfigurationArn</a> <a href="#">vpc-lattice:ServiceNetworkArn</a>
<a href="#">ServiceNetworkServiceAssociation</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:servicenetworkserviceassociation/\${ServiceNetworkServiceAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:ServiceArn</a> <a href="#">vpc-lattice:ServiceNetworkArn</a>



Resource types	ARN	Condition keys
<a href="#">ServiceNetworkVpcAssociation</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:servicenetworkvpcassociation/\${ServiceNetworkVpcAssociationId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:PrivateDnsPreference</a> <a href="#">vpc-lattice:PrivateDnsSpecifiedDomains</a> <a href="#">vpc-lattice:SecurityGroupIds</a> <a href="#">vpc-lattice:ServiceNetworkArn</a> <a href="#">vpc-lattice:VpcId</a>

Resource types	ARN	Condition keys
<a href="#">TargetGroup</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:targetgroup/\${TargetGroupId}	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">vpc-lattice:CreateAction</a> <a href="#">vpc-lattice:VpclId</a>

## Condition keys for Amazon VPC Lattice

Amazon VPC Lattice defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of tag keys in the request	ArrayOfString
<a href="#">vpc-lattice:AuthType</a>	Filters access by the auth type specified in the request	String

Condition keys	Description	Type
<a href="#">vpc-lattice:CreateAction</a>	Filters access by the name of a resource-creating API action	String
<a href="#">vpc-lattice:DomainName</a>	Filters access by the domain name	String
<a href="#">vpc-lattice:PrivateDnsPreference</a>	Filters access by the private dns preference	String
<a href="#">vpc-lattice:PrivateDnsSpecifiedDomains</a>	Filters access by the private dns domains	ArrayOfString
<a href="#">vpc-lattice:Protocol</a>	Filters access by the protocol specified in the request	String
<a href="#">vpc-lattice:ResourceConfigurationArn</a>	Filters access by the ARN of a resource configuration	ARN
<a href="#">vpc-lattice:SecurityGroupIds</a>	Filters access by the IDs of security groups	ArrayOfString
<a href="#">vpc-lattice:ServiceArn</a>	Filters access by the ARN of a service	ARN
<a href="#">vpc-lattice:ServiceNetworkArn</a>	Filters access by the ARN of a service network	ARN
<a href="#">vpc-lattice:TargetGroupArns</a>	Filters access by the ARNs of target groups	ArrayOfARN

Condition keys	Description	Type
<a href="#">vpc-lattice:VpcEndpointId</a>	Filters access by the ID of a VPC endpoint	String
<a href="#">vpc-lattice:VpcId</a>	Filters access by the ID of a virtual private cloud (VPC)	String

## Actions, resources, and condition keys for Amazon VPC Lattice Services

Amazon VPC Lattice Services (service prefix: `vpc-lattice-svcs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon VPC Lattice Services](#)
- [Resource types defined by Amazon VPC Lattice Services](#)
- [Condition keys for Amazon VPC Lattice Services](#)

## Actions defined by Amazon VPC Lattice Services

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Connect</a>	Grants permission to connect to a VPC Lattice service	Write	<a href="#">TCP Service*</a>		
				<a href="#">vpc-lattice-svcs:Port</a> <a href="#">vpc-lattice-svcs:ServiceNetworkArn</a> <a href="#">vpc-lattice-svcs:ServiceArn</a> <a href="#">vpc-lattice-svcs:SourceVpc</a> <a href="#">vpc-lattice-svcs:SourceVpcOwnerAccount</a>	
<a href="#">Invoke</a>	Grants permission to invoke a VPC Lattice service	Write	<a href="#">Service*</a>		
				<a href="#">vpc-lattice-svcs:Port</a> <a href="#">vpc-lattice-svcs:</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">serviceNetworkArn</a> <a href="#">vpc-lattice-svcs:ServiceArn</a> <a href="#">vpc-lattice-svcs:SourceVpc</a> <a href="#">vpc-lattice-svcs:SourceVpcOwnerAccount</a> <a href="#">vpc-lattice-svcs:RequestMethod</a> <a href="#">vpc-lattice-svcs:RequestPath</a> <a href="#">vpc-lattice-svcs:RequestHeader/\${HeaderName}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">vpc-lattice-svcs:RequestQueryString/\${QueryStringKey}</a>	

## Resource types defined by Amazon VPC Lattice Services

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Service</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:service/\${ServiceId}/\${RequestPath}	
<a href="#">TCP Service</a>	arn:\${Partition}:vpc-lattice:\${Region}:\${Account}:service/\${ServiceId}	

## Condition keys for Amazon VPC Lattice Services

Amazon VPC Lattice Services defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).



To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">vpc-lattice-svcs:Port</a>	Filters access by the destination port the request is made to	Numeric
<a href="#">vpc-lattice-svcs:RequestHeader/\${HeaderName}</a>	Filters access by a header name-value pair in the request headers	String
<a href="#">vpc-lattice-svcs:RequestMethod</a>	Filters access by the method of the request	String
<a href="#">vpc-lattice-svcs:RequestPath</a>	Filters access by the path portion of the request URL	String
<a href="#">vpc-lattice-svcs:QueryString/\${QueryStringKey}</a>	Filters access by the query string key-value pairs in the request URL	ArrayOfString
<a href="#">vpc-lattice-svcs:ServiceArn</a>	Filters access by the ARN of the service receiving the request	ARN
<a href="#">vpc-lattice-svcs:ServiceNetworkArn</a>	Filters access by the ARN of the service network receiving the request	ARN
<a href="#">vpc-lattice-svcs:SourceVpc</a>	Filters access by the VPC the request is made from	String

Condition keys	Description	Type
<a href="#">vpc-lattice-svcs:SourceVpcOwnerAccount</a>	Filters access by the owning account of the VPC the request is made from	String

## Actions, resources, and condition keys for AWS WAF

AWS WAF (service prefix: waf) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS WAF](#)
- [Resource types defined by AWS WAF](#)
- [Condition keys for AWS WAF](#)

## Actions defined by AWS WAF

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateByteMatchSet</a>	Grants permission to create a ByteMatchSet	Write	<a href="#">bytematchset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateGeoMatchSet</a>	Grants permission to create a GeoMatchSet	Write	<a href="#">geomatchset*</a>		
<a href="#">CreateIPSet</a>	Grants permission to create an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">CreateRateBasedRule</a>	Grants permission to create a RateBasedRule for limiting the volume of requests from a single IP address	Write	<a href="#">ratebasedrule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRegexMatchSet</a>	Grants permission to create a RegexMatchSet	Write	<a href="#">regexmatchset*</a>		
<a href="#">CreateRegexPatternSet</a>	Grants permission to create a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">CreateRule</a>	Grants permission to create a Rule for filtering web requests	Write	<a href="#">rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateRuleGroup</a>	Grants permission to create a RuleGroup, which is a collection of predefined rules that you can use in a WebACL	Write	<a href="#">rulegroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSizeConstraintSet</a>	Grants permission to create a SizeConstraintSet	Write	<a href="#">sizeconstraintset*</a>		
<a href="#">CreateSqlInjectionMatchSet</a>	Grants permission to create an SqlInjectionMatchSet	Write	<a href="#">sqlinjectionmatchset*</a>		
<a href="#">CreateWebACL</a>	Grants permission to create a WebACL, which contains rules for filtering web requests	Permissions management	<a href="#">webacl*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWebACLMigrationStack</a>	Grants permission to create a CloudFormation web ACL template in an S3 bucket for the purposes of migrating the web ACL from AWS WAF Classic to AWS WAF v2	Write	<a href="#">webacl*</a>		s3:PutObject
<a href="#">CreateXssMatchSet</a>	Grants permission to create an XssMatchSet, which you use to detect requests that contain cross-site scripting attacks	Write	<a href="#">xssmatchset*</a>		
<a href="#">DeleteByteMatchSet</a>	Grants permission to delete a ByteMatchSet	Write	<a href="#">bytematchset*</a>		
<a href="#">DeleteGeoMatchSet</a>	Grants permission to delete a GeoMatchSet	Write	<a href="#">geomatchset*</a>		
<a href="#">DeleteIPSet</a>	Grants permission to delete an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">DeleteLoggingConfiguration</a>	Grants permission to delete the LoggingConfiguration from a web ACL	Write	<a href="#">webacl*</a>		
<a href="#">DeletePermissionPolicy</a>	Grants permission to delete an IAM policy from a rule group	Permissions management	<a href="#">rulegroup*</a>		
<a href="#">DeleteRateBasedRule</a>	Grants permission to delete a RateBasedRule	Write	<a href="#">ratebasedrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteRegexMatchSet</a>	Grants permission to delete a RegexMatchSet	Write	<a href="#">regexmatchset*</a>		
<a href="#">DeleteRegexPatternSet</a>	Grants permission to delete a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">DeleteRule</a>	Grants permission to delete a Rule	Write	<a href="#">rule*</a>		
<a href="#">DeleteRuleGroup</a>	Grants permission to delete a RuleGroup	Write	<a href="#">rulegroup*</a>		
<a href="#">DeleteSizeConstraintSet</a>	Grants permission to delete a SizeConstraintSet	Write	<a href="#">sizeconstraintset*</a>		
<a href="#">DeleteSqlInjectionMatchSet</a>	Grants permission to delete an SqlInjectionMatchSet	Write	<a href="#">sqlinjectionmatchset*</a>		
<a href="#">DeleteWebACL</a>	Grants permission to delete a WebACL	Permissions management	<a href="#">webacl*</a>		
<a href="#">DeleteXssMatchSet</a>	Grants permission to delete an XssMatchSet	Write	<a href="#">xssmatchset*</a>		
<a href="#">GetByteMatchSet</a>	Grants permission to retrieve a ByteMatchSet	Read	<a href="#">bytematchset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetChangeToken</a>	Grants permission to retrieve a change token to use in create, update, and delete requests	Read			
<a href="#">GetChangeTokenStatus</a>	Grants permission to retrieve the status of a change token	Read			
<a href="#">GetGeoMatchSet</a>	Grants permission to retrieve a GeoMatchSet	Read	<a href="#">geomatchset*</a>		
<a href="#">GetIPSet</a>	Grants permission to retrieve an IPSet	Read	<a href="#">ipset*</a>		
<a href="#">GetLoggingConfiguration</a>	Grants permission to retrieve a LoggingConfiguration for a web ACL	Read	<a href="#">webacl*</a>		
<a href="#">GetPermissionPolicy</a>	Grants permission to retrieve an IAM policy for a rule group	Read	<a href="#">rulegroup*</a>		
<a href="#">GetRateBasedRule</a>	Grants permission to retrieve a RateBasedRule	Read	<a href="#">ratebasedrule*</a>		
<a href="#">GetRateBasedRuleManagedKeys</a>	Grants permission to retrieve the array of IP addresses that are currently being blocked by a RateBasedRule	Read	<a href="#">ratebasedrule*</a>		
<a href="#">GetRegexMatchSet</a>	Grants permission to retrieve a RegexMatchSet	Read	<a href="#">regexmatchset*</a>		
<a href="#">GetRegexPatternSet</a>	Grants permission to retrieve a RegexPatternSet	Read	<a href="#">regexpatternset*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRule</a>	Grants permission to retrieve a Rule	Read	<a href="#">rule*</a>		
<a href="#">GetRuleGroup</a>	Grants permission to retrieve a RuleGroup	Read	<a href="#">rulegroup*</a>		
<a href="#">GetSampledRequests</a>	Grants permission to retrieve detailed information about a sample set of web requests	Read	<a href="#">webacl</a>		
<a href="#">GetSizeConstraintSet</a>	Grants permission to retrieve a SizeConstraintSet	Read	<a href="#">sizeconstraintset*</a>		
<a href="#">GetSqlInjectionMatchSet</a>	Grants permission to retrieve an SqlInjectionMatchSet	Read	<a href="#">sqlinjectionmatchset*</a>		
<a href="#">GetWebACL</a>	Grants permission to retrieve a WebACL	Read	<a href="#">webacl*</a>		
<a href="#">GetXssMatchSet</a>	Grants permission to retrieve an XssMatchSet	Read	<a href="#">xssmatchset*</a>		
<a href="#">ListActivatedRulesInRuleGroup</a>	Grants permission to retrieve an array of ActivatedRule objects	List			
<a href="#">ListByteMatchSets</a>	Grants permission to retrieve an array of ByteMatchSetSummary objects	List			
<a href="#">ListGeoMatchSets</a>	Grants permission to retrieve an array of GeoMatchSetSummary objects	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIPSets</a>	Grants permission to retrieve an array of IPSetSummary objects	List			
<a href="#">ListLoggingConfigurations</a>	Grants permission to retrieve an array of LoggingConfiguration objects	List			
<a href="#">ListRateBasedRules</a>	Grants permission to retrieve an array of RuleSummary objects	List			
<a href="#">ListRegexMatchSets</a>	Grants permission to retrieve an array of RegexMatchSetSummary objects	List			
<a href="#">ListRegexPatternSets</a>	Grants permission to retrieve an array of RegexPatternSetSummary objects	List			
<a href="#">ListRuleGroups</a>	Grants permission to retrieve an array of RuleGroup objects	List			
<a href="#">ListRules</a>	Grants permission to retrieve an array of RuleSummary objects	List			
<a href="#">ListSizeConstraintSets</a>	Grants permission to retrieve an array of SizeConstraintSetSummary objects	List			
<a href="#">ListSqlInjectionMatchSets</a>	Grants permission to retrieve an array of SqlInjectionMatchSet objects	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListSubscribedRuleGroups</a>	Grants permission to retrieve an array of RuleGroup objects that you are subscribed to	List			
<a href="#">ListTagsForResource</a>	Grants permission to retrieve the tags for a resource	Read	<a href="#">ratebased rule</a>		
			<a href="#">rule</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
<a href="#">ListWebACLs</a>	Grants permission to retrieve an array of WebACLSummary objects	List			
<a href="#">ListXssMatchSets</a>	Grants permission to retrieve an array of XssMatchSet objects	List			
<a href="#">PutLoggingConfiguration</a>	Grants permission to associate a LoggingConfiguration with a specified web ACL	Write	<a href="#">webacl*</a>		iam:CreateServiceLinkedRole
<a href="#">PutPermissionPolicy</a>	Grants permission to attach an IAM policy to a rule group, to share the rule group between accounts	Permissions management	<a href="#">rulegroup*</a>		
<a href="#">TagResource</a>	Grants permission to add a Tag to a resource	Tagging	<a href="#">ratebased rule</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">rule</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a>	
				<a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove a Tag from a resource	Tagging	<a href="#">ratebasedrule</a>		
			<a href="#">rule</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateByteMatchSet</a>	Grants permission to insert or delete ByteMatchTuple objects in a ByteMatchSet	Write	<a href="#">bytematchset*</a>		
<a href="#">UpdateGeoMatchSet</a>	Grants permission to insert or delete GeoMatchConstraint objects in a GeoMatchSet	Write	<a href="#">geomatchset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIPSet</a>	Grants permission to insert or delete IPSetDescriptor objects in an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">UpdateRateBasedRule</a>	Grants permission to modify a rate based rule	Write	<a href="#">ratebasedrule*</a>		
<a href="#">UpdateRegexMatchSet</a>	Grants permission to insert or delete RegexMatchTuple objects in a RegexMatchSet	Write	<a href="#">regexmatchset*</a>		
<a href="#">UpdateRegexPatternSet</a>	Grants permission to insert or delete RegexPatternStrings in a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">UpdateRule</a>	Grants permission to modify a Rule	Write	<a href="#">rule*</a>		
<a href="#">UpdateRuleGroup</a>	Grants permission to insert or delete ActivatedRule objects in a RuleGroup	Write	<a href="#">rulegroup*</a>		
<a href="#">UpdateSizeConstraintSet</a>	Grants permission to insert or delete SizeConstraint objects in a SizeConstraintSet	Write	<a href="#">sizeconstraintset*</a>		
<a href="#">UpdateSqlInjectionMatchSet</a>	Grants permission to insert or delete SqlInjectionMatchTuple objects in an SqlInjectionMatchSet	Write	<a href="#">sqlinjectionmatchset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWebACL</a>	Grants permission to insert or delete ActivatedRule objects in a WebACL	Permissions management	<a href="#">webacl*</a>		
<a href="#">UpdateXssMatchSet</a>	Grants permission to insert or delete XssMatchTuple objects in an XssMatchSet	Write	<a href="#">xssmatchset*</a>		

## Resource types defined by AWS WAF

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">bytematchset</a>	arn:\${Partition}:waf::\${Account}:bytematchset/\${Id}	
<a href="#">ipset</a>	arn:\${Partition}:waf::\${Account}:ipset/\${Id}	
<a href="#">ratebasedrule</a>	arn:\${Partition}:waf::\${Account}:ratebasedrule/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule</a>	arn:\${Partition}:waf::\${Account}:rule/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">sizeconstraintset</a>	arn:\${Partition}:waf::\${Account}:sizeconstraintset/\${Id}	
<a href="#">sqlinjectionmatchset</a>	arn:\${Partition}:waf::\${Account}:sqlinjectionset/\${Id}	
<a href="#">webacl</a>	arn:\${Partition}:waf::\${Account}:webacl/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">xssmatchset</a>	arn:\${Partition}:waf::\${Account}:xssmatchset/\${Id}	
<a href="#">regexmatchset</a>	arn:\${Partition}:waf::\${Account}:regexmatch/\${Id}	
<a href="#">regexpatternset</a>	arn:\${Partition}:waf::\${Account}:regexpatternset/\${Id}	
<a href="#">geomatchset</a>	arn:\${Partition}:waf::\${Account}:geomatchset/\${Id}	
<a href="#">rulegroup</a>	arn:\${Partition}:waf::\${Account}:rulegroup/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS WAF

AWS WAF defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS WAF Regional

AWS WAF Regional (service prefix: `waf-regional`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS WAF Regional](#)
- [Resource types defined by AWS WAF Regional](#)
- [Condition keys for AWS WAF Regional](#)

## Actions defined by AWS WAF Regional

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.



The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AssociateWebACL</a>	Grants permission to associate a web ACL with a resource	Write	<a href="#">loadbalancer/app/*-</a> <a href="#">webacl*</a>		
<a href="#">CreateByteMatchSet</a>	Grants permission to create a ByteMatchSet	Write	<a href="#">bytematchset*</a>		
<a href="#">CreateGeoMatchSet</a>	Grants permission to create a GeoMatchSet	Write	<a href="#">geomatchset*</a>		
<a href="#">CreateIPSet</a>	Grants permission to create an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">CreateRateBasedRule</a>	Grants permission to create a RateBasedRule	Write	<a href="#">ratebasedrule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRegexMatchSet</a>	Grants permission to create a RegexMatchSet	Write	<a href="#">regexmatchset*</a>		
<a href="#">CreateRegexPatternSet</a>	Grants permission to create a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">CreateRule</a>	Grants permission to create a Rule	Write	<a href="#">rule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRuleGroup</a>	Grants permission to create a RuleGroup	Write	<a href="#">rulegroup*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSizeConstraintSet</a>	Grants permission to create a SizeConstraintSet	Write	<a href="#">sizeconstraintset*</a>		
<a href="#">CreateSqlInjectionMatchSet</a>	Grants permission to create an SqlInjectionMatchSet	Write	<a href="#">sqlinjectionmatchset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWebACL</a>	Grants permission to create a WebACL	Permissions management	<a href="#">webacl*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWebACLMigrationStack</a>	Grants permission to create a CloudFormation web ACL template in an S3 bucket for the purposes of migrating the web ACL from AWS WAF Classic to AWS WAF v2	Write	<a href="#">webacl*</a>		s3:PutObject
<a href="#">CreateXssMatchSet</a>	Grants permission to create an XssMatchSet	Write	<a href="#">xssmatchset*</a>		
<a href="#">DeleteByteMatchSet</a>	Grants permission to delete a ByteMatchSet	Write	<a href="#">bytematchset*</a>		
<a href="#">DeleteGeoMatchSet</a>	Grants permission to delete a GeoMatchSet	Write	<a href="#">geomatchset*</a>		
<a href="#">DeleteIPSet</a>	Grants permission to delete an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">DeleteLoggingConfiguration</a>	Grants permission to delete a LoggingConfiguration from a web ACL	Write	<a href="#">webacl*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeletePermissionPolicy</a>	Grants permission to delete an IAM policy from a rule group	Permissions management	<a href="#">rulegroup*</a>		
<a href="#">DeleteRateBasedRule</a>	Grants permission to delete a RateBasedRule	Write	<a href="#">ratebasedrule*</a>		
<a href="#">DeleteRegexMatchSet</a>	Grants permission to delete a RegexMatchSet	Write	<a href="#">regexmatchset*</a>		
<a href="#">DeleteRegexPatternSet</a>	Grants permission to delete a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">DeleteRule</a>	Grants permission to delete a Rule	Write	<a href="#">rule*</a>		
<a href="#">DeleteRuleGroup</a>	Grants permission to delete a RuleGroup	Write	<a href="#">rulegroup*</a>		
<a href="#">DeleteSizeConstraintSet</a>	Grants permission to delete a SizeConstraintSet	Write	<a href="#">sizeconstraintset*</a>		
<a href="#">DeleteSqlInjectionMatchSet</a>	Grants permission to delete an SqlInjectionMatchSet	Write	<a href="#">sqlinjectionmatchset*</a>		
<a href="#">DeleteWebACL</a>	Grants permission to delete a WebACL	Permissions management	<a href="#">webacl*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteXssMatchSet</a>	Grants permission to delete an XssMatchSet	Write	<a href="#">xssmatchset*</a>		
<a href="#">DisassociateWebACL</a>	Grants permission to delete an association between a web ACL and a resource	Write	<a href="#">loadbalancer/app/*-</a>		
<a href="#">GetByteMatchSet</a>	Grants permission to retrieve a ByteMatchSet	Read	<a href="#">bytematchset*</a>		
<a href="#">GetChangeToken</a>	Grants permission to retrieve a change token to use in create, update, and delete requests	Read			
<a href="#">GetChangeTokenStatus</a>	Grants permission to retrieve the status of a change token	Read			
<a href="#">GetGeoMatchSet</a>	Grants permission to retrieve a GeoMatchSet	Read	<a href="#">geomatchset*</a>		
<a href="#">GetIPSet</a>	Grants permission to retrieve an IPSet	Read	<a href="#">ipset*</a>		
<a href="#">GetLoggingConfiguration</a>	Grants permission to retrieve a LoggingConfiguration	Read	<a href="#">webacl*</a>		
<a href="#">GetPermissionPolicy</a>	Grants permission to retrieve an IAM policy attached to a RuleGroup	Read	<a href="#">rulegroup*-</a>		
<a href="#">GetRateBasedRule</a>	Grants permission to retrieve a RateBasedRule	Read	<a href="#">ratebasedrule*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRateBasedRuleManagedKeys</a>	Grants permission to retrieve the array of IP addresses that are currently being blocked by a RateBasedRule	Read	<a href="#">ratebasedrule*</a>		
<a href="#">GetRegexMatchSet</a>	Grants permission to retrieve a RegexMatchSet	Read	<a href="#">regexmatchset*</a>		
<a href="#">GetRegexPatternSet</a>	Grants permission to retrieve a RegexPatternSet	Read	<a href="#">regexpatternset*</a>		
<a href="#">GetRule</a>	Grants permission to retrieve a Rule	Read	<a href="#">rule*</a>		
<a href="#">GetRuleGroup</a>	Grants permission to retrieve a RuleGroup	Read	<a href="#">rulegroup*</a>		
<a href="#">GetSampledRequests</a>	Grants permission to retrieve detailed information for a sample set of web requests	Read	<a href="#">webacl</a>		
<a href="#">GetSizeConstraintSet</a>	Grants permission to retrieve a SizeConstraintSet	Read	<a href="#">sizeconstraintset*</a>		
<a href="#">GetSqlInjectionMatchSet</a>	Grants permission to retrieve an SqlInjectionMatchSet	Read	<a href="#">sqlinjectionmatchset*</a>		
<a href="#">GetWebACL</a>	Grants permission to retrieve a WebACL	Read	<a href="#">webacl*</a>		
<a href="#">GetWebACLForResource</a>	Grants permission to retrieve a WebACL that's associated with a specified resource	Read	<a href="#">loadbalancer/app/*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetXssMatchSet</a>	Grants permission to retrieve an XssMatchSet	Read	<a href="#">xssmatchset*</a>		
<a href="#">ListActivatedRulesInRuleGroup</a>	Grants permission to retrieve an array of ActivatedRule objects	List			
<a href="#">ListByteMatchSets</a>	Grants permission to retrieve an array of ByteMatchSetSummary objects	List			
<a href="#">ListGeoMatchSets</a>	Grants permission to retrieve an array of GeoMatchSetSummary objects	List			
<a href="#">ListIPSets</a>	Grants permission to retrieve an array of IPSetSummary objects	List			
<a href="#">ListLoggingConfigurations</a>	Grants permission to retrieve an array of LoggingConfiguration objects	List			
<a href="#">ListRateBasedRules</a>	Grants permission to retrieve an array of RuleSummary objects	List			
<a href="#">ListRegexMatchSets</a>	Grants permission to retrieve an array of RegexMatchSetSummary objects	List			
<a href="#">ListRegexPatternSets</a>	Grants permission to retrieve an array of RegexPatternSetSummary objects	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourcesForWebACL</a>	Grants permission to retrieve an array of resources associated with a specified WebACL	List	<a href="#">webacl*</a>		
<a href="#">ListRuleGroups</a>	Grants permission to retrieve an array of RuleGroup objects	List			
<a href="#">ListRules</a>	Grants permission to retrieve an array of RuleSummary objects	List			
<a href="#">ListSizeConstraintSets</a>	Grants permission to retrieve an array of SizeConstraintSetSummary objects	List			
<a href="#">ListSqlInjectionMatchSets</a>	Grants permission to retrieve an array of SqlInjectionMatchSet objects	List			
<a href="#">ListSubscribedRuleGroups</a>	Grants permission to retrieve an array of RuleGroup objects that you are subscribed to	List			
<a href="#">ListTagsForResource</a>	Grants permission to lists the Tags for a resource	Read	<a href="#">ratebasedrule</a>		
			<a href="#">rule</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListWebACLs</a>	Grants permission to retrieve an array of WebACLSummary objects	List			
<a href="#">ListXssMatchSets</a>	Grants permission to retrieve an array of XssMatchSet objects	List			
<a href="#">PutLoggingConfiguration</a>	Grants permission to associates a LoggingConfiguration with a web ACL	Write	<a href="#">webacl*</a>		iam:CreateServiceLinkedRole
<a href="#">PutPermissionPolicy</a>	Grants permission to attach an IAM policy to a specified rule group, to support rule group sharing between accounts	Permissions management	<a href="#">rulegroup*</a>		
<a href="#">TagResource</a>	Grants permission to add a Tag to a resource	Tagging	<a href="#">ratebasedrule</a>		
			<a href="#">rule</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
			<a href="#">aws:RequestTag/\${TagKey}</a>		
			<a href="#">aws:TagKeys</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UntagResource</a>	Grants permission to remove a Tag from a resource	Tagging	<a href="#">ratebasedrule</a>		
			<a href="#">rule</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateByteMatchSet</a>	Grants permission to insert or delete ByteMatchTuple objects in a ByteMatchSet	Write	<a href="#">bytematchset*</a>		
<a href="#">UpdateGeoMatchSet</a>	Grants permission to insert or delete GeoMatchConstraint objects in a GeoMatchSet	Write	<a href="#">geomatchset*</a>		
<a href="#">UpdateIPSet</a>	Grants permission to insert or delete IPSetDescriptor objects in an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">UpdateRateBasedRule</a>	Grants permission to insert or delete predicate objects in a rate based rule and update the RateLimit in the rule	Write	<a href="#">ratebasedrule*</a>		
<a href="#">UpdateRegexMatchSet</a>	Grants permission to insert or delete RegexMatchTuple objects in a RegexMatchSet	Write	<a href="#">regexmatchset*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRegexPatternSet</a>	Grants permission to insert or delete RegexPatternStrings in a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">UpdateRule</a>	Grants permission to insert or delete predicate objects in a Rule	Write	<a href="#">rule*</a>		
<a href="#">UpdateRuleGroup</a>	Grants permission to insert or delete ActivatedRule objects in a RuleGroup	Write	<a href="#">rulegroup*</a>		
<a href="#">UpdateSizeConstraintSet</a>	Grants permission to insert or delete SizeConstraint objects in a SizeConstraintSet	Write	<a href="#">sizeconstraintset*</a>		
<a href="#">UpdateSqlInjectionMatchSet</a>	Grants permission to insert or delete SqlInjectionMatchTuple objects in an SqlInjectionMatchSet	Write	<a href="#">sqlinjectionmatchset*</a>		
<a href="#">UpdateWebACL</a>	Grants permission to insert or delete ActivatedRule objects in a WebACL	Permissions management	<a href="#">webacl*</a>		
<a href="#">UpdateXssMatchSet</a>	Grants permission to insert or delete XssMatchTuple objects in an XssMatchSet	Write	<a href="#">xssmatchset*</a>		

## Resource types defined by AWS WAF Regional

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">bytematchset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:bytematchset/\${Id}	
<a href="#">ipset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:ipset/\${Id}	
<a href="#">loadbalancer/app/</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/app/\${LoadBalancerName}/\${LoadBalancerId}	
<a href="#">ratebasedrule</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:ratebasedrule/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">rule</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:rule/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sizeconstraintset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:sizeconstraintset/\${Id}	
<a href="#">sqlinjectionmatchset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:sqlinjectionset/\${Id}	
<a href="#">webacl</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:webacl/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">xssmatchset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:xssmatchset/\${Id}	
<a href="#">regexmatchset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:regexmatch/\${Id}	
<a href="#">regexpatternset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:regexpatternset/\${Id}	
<a href="#">geomatchset</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:geomatchset/\${Id}	
<a href="#">rulegroup</a>	arn:\${Partition}:waf-regional:\${Region}:\${Account}:rulegroup/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS WAF Regional

AWS WAF Regional defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag-value associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of mandatory tags in the request	ArrayOfString

## Actions, resources, and condition keys for AWS WAF V2

AWS WAF V2 (service prefix: `wafv2`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS WAF V2](#)
- [Resource types defined by AWS WAF V2](#)
- [Condition keys for AWS WAF V2](#)

## Actions defined by AWS WAF V2

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which

the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate WebACL</a>	Grants permission to associate a WebACL with a resource	Write	<a href="#">webacl*</a>		amplify:AssociateWebACL



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					apigateway:SetWebACL
					apprunner:AssociateWebAcl
					appsync:AssociateWebACL
					appsync:SetWebACL
					cognito-idp:AssociateWebACL
					ec2:AssociateVerifiedAccessInstanceWebAcl
					elasticloadbalancing:CreateWebACLAssociation
					elasticloadbalancing:

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ng:SetWebAcl  wafv2:GetPermissionPolicy  wafv2:PutPermissionPolicy
<a href="#">CheckCapacity</a>	Grants permission to calculate web ACL capacity unit (WCU) requirements for a specified scope and set of rules	Read	<a href="#">amplify-app</a>  <a href="#">apigateway</a>  <a href="#">apprunner</a>  <a href="#">appsync</a>  <a href="#">loadbalancer/app/</a>  <a href="#">userpool</a>  <a href="#">verified-access-instance</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAPIKey</a>	Grants permission to create an API key for use in the integration of the CAPTCHA API in your JavaScript client applications	Write			
<a href="#">CreateIPSet</a>	Grants permission to create an IPSet	Write	<a href="#">ipset*</a>		wafv2:Tag Resource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRegexPatternSet</a>	Grants permission to create a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		wafv2:Tag Resource
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRuleGroup</a>	Grants permission to create a RuleGroup	Write	<a href="#">rulegroup*</a> <a href="#">ipset</a>		wafv2:Tag Resource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">regexpatternset</a>		
<a href="#">CreateWebACL</a>	Grants permission to create a WebACL	Write	<a href="#">webacl*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	wafv2:TagResource
<a href="#">DeleteAPIKey</a>	Grants permission to delete an API key	Write	<a href="#">ipset</a> <a href="#">managedruleset</a> <a href="#">regexpatternset</a> <a href="#">rulegroup</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFirewallManagerRuleGroups</a>	Grants permission to delete FirewallManagedRulesGroups from a WebACL if not managed by Firewall Manager anymore	Write	<a href="#">webacl*</a>		
<a href="#">DeleteIPSet</a>	Grants permission to delete an IPSet	Write	<a href="#">ipset*</a>		
<a href="#">DeleteLoggingConfiguration</a>	Grants permission to delete the LoggingConfiguration from a WebACL	Write	<a href="#">webacl*</a>	<a href="#">wafv2:LogScope</a>	
<a href="#">DeletePermissionPolicy</a>	Grants permission to delete the PermissionPolicy on a RuleGroup	Permissions management	<a href="#">rulegroup*</a>		
<a href="#">DeleteRegexPatternSet</a>	Grants permission to delete a RegexPatternSet	Write	<a href="#">regexpatternset*</a>		
<a href="#">DeleteRuleGroup</a>	Grants permission to delete a RuleGroup	Write	<a href="#">rulegroup*</a>		
<a href="#">DeleteWebACL</a>	Grants permission to delete a WebACL	Write	<a href="#">webacl*</a>		
<a href="#">DescribeAllManagedProducts</a>	Grants permission to retrieve product information for a managed rule group	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeManagedProductsByVendor</a>	Grants permission to retrieve product information for a managed rule group by a given vendor	Read			
<a href="#">DescribeManagedRuleGroup</a>	Grants permission to retrieve high-level information for a managed rule group	Read			
<a href="#">DisassociateFirewallManager</a> [permission only]	Grants permission to disassociate Firewall Manager from a WebACL	Write	<a href="#">webacl*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateWebACL</a>	Grants permission to disassociate a WebACL from an application resource	Write	<a href="#">amplify-app</a>		amplify:DisassociateWebACL  apigateway:SetWebACL  apprunner:DisassociateWebACL  appsync:DisassociateWebACL  appsync:SetWebACL  cognito-idp:DisassociateWebACL  ec2:DisassociateVerifiedAccessInstanceWebACL  elasticloadbalancing:Delete

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					WebACLAssociation  elasticloadbalancing:SetWebAcl  wafv2:PutWebACL
<a href="#">GenerateMobileSdkReleaseUrl</a>	Grants permission to generate a presigned download URL for the specified release of the mobile SDK	Read	<a href="#">apigateway</a>  <a href="#">apprunner</a>  <a href="#">appsync</a>  <a href="#">loadbalancer/app/</a>  <a href="#">userpool</a>  <a href="#">verified-access-in-stance</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDecryptedAPIKey</a>	Grants permission to return your API key in decrypted form. Use this to check the token domains that you have defined for the key	Read			
<a href="#">GetIPSet</a>	Grants permission to retrieve details about an IPSet	Read	<a href="#">ipset*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLoggingConfiguration</a>	Grants permission to retrieve LoggingConfiguration for a WebACL	Read	<a href="#">webacl*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">wafv2:LogScope</a>	
<a href="#">GetManagedRuleSet</a>	Grants permission to retrieve details about a ManagedRuleSet	Read	<a href="#">managedruleset*</a>		
<a href="#">GetMobileSdkRelease</a>	Grants permission to retrieve information for the specified mobile SDK release, including release notes and tags	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetPermissionPolicy</a>	Grants permission to retrieve a PermissionPolicy for a RuleGroup	Read	<a href="#">rulegroup*</a>		
<a href="#">GetRateBasedStatementManagedKeys</a>	Grants permission to retrieve the keys that are currently blocked by a rate-based rule	Read	<a href="#">webacl*</a>		
<a href="#">GetRegexPatternSet</a>	Grants permission to retrieve details about a RegexPatternSet	Read	<a href="#">regexpatternset*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetRuleGroup</a>	Grants permission to retrieve details about a RuleGroup	Read	<a href="#">rulegroup*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSampledRequests</a>	Grants permission to retrieve detailed information about a sampling of web requests	Read	<a href="#">webacl*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetTopPathStatisticsByTraffic</a>	Grants permission to retrieve aggregated path statistics with bot traffic analysis for a WebACL within a specified time window	Read	<a href="#">webacl*</a>		
<a href="#">GetWebACL</a>	Grants permission to retrieve details about a WebACL	Read	<a href="#">webacl*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetWebACLForResource</a>	Grants permission to retrieve the WebACL that's associated with a resource	Read	<a href="#">webacl*</a>		amplify:GetWebACLForResource apprunner:DescribeWebACLForService appsync:GetWebACLForResource cognito-idp:GetWebACLForResource ec2:GetVerifiedAccessInstanceWebACL elasticloadbalancing:GetLoadBalancerWebACL wafv2:GetWebACL

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">amplify-app</a>		
			<a href="#">apigateway</a>		
			<a href="#">apprunner</a>		
			<a href="#">appsync</a>		
			<a href="#">loadbalancer/app/</a>		
			<a href="#">userpool</a>		
			<a href="#">verified-access-instance</a>		
<a href="#">ListAPIKeys</a>	Grants permission to retrieve a list of the API keys that you've defined for the specified scope	List			
<a href="#">ListAvailableManagedRuleGroupVersions</a>	Grants permission to retrieve an array of managed rule group versions that are available for you to use	List			
<a href="#">ListAvailableManagedRuleGroups</a>	Grants permission to retrieve an array of managed rule groups that are available for you to use	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListIPSets</a>	Grants permission to retrieve an array of IPSetSummary objects for the IP sets that you manage	List			
<a href="#">ListLoggingConfigurations</a>	Grants permission to retrieve an array of your LoggingConfiguration objects	List		<a href="#">wafv2:LogScope</a>	
<a href="#">ListManagedRuleSets</a>	Grants permission to retrieve an array of your ManagedRuleSet objects	List			
<a href="#">ListMobileSdkReleases</a>	Grants permission to retrieve a list of the available releases for the mobile SDK and the specified device platform	List			
<a href="#">ListRegexPatternSets</a>	Grants permission to retrieve an array of RegexPatternSetSummary objects for the regex pattern sets that you manage	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourcesForWebACL</a>	Grants permission to retrieve an array of the Amazon Resource Names (ARNs) for the resources that are associated with a web ACL	List	<a href="#">webacl*</a>		amplify:ListResourcesForWebACL  apprunner:ListAssociatedServicesForWebAcl  appsync:ListResourcesForWebACL  cognito-idp:ListResourcesForWebACL  ec2:DescribeVerifiedAccessInstanceWebAclAssociations  elasticloadbalancing:DescribeWebACLs

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					ssociation
			<a href="#">amplify-app</a>		
			<a href="#">apprunner</a>		
			<a href="#">userpool</a>		
			<a href="#">verified-access-instance</a>		
<a href="#">ListRuleGroups</a>	Grants permission to retrieve an array of RuleGroup Summary objects for the rule groups that you manage	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">ipset</a>		
			<a href="#">regexpatternset</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListWebACLs</a>	Grants permission to retrieve an array of WebACLSummary objects for the web ACLs that you manage	List			
<a href="#">PutFirewallManagerRuleGroups</a> [permission only]	Grants permission to create FirewallManagedRulesGroups in a WebACL	Write	<a href="#">webacl*</a>		
<a href="#">PutLoggingConfiguration</a>	Grants permission to enable a LoggingConfiguration, to start logging for a web ACL	Write	<a href="#">webacl*</a>		iam:CreateServiceLinkedRole
				<a href="#">wafv2:LogScope</a> <a href="#">wafv2:LogDestinationResource</a>	
<a href="#">PutManagedRuleSetVersions</a>	Grants permission to enable create a new or update an existing version of a ManagedRuleSet	Write	<a href="#">managedruleset*</a> <a href="#">rulegroup*</a> -		
<a href="#">PutPermissionPolicy</a>	Grants permission to attach an IAM policy to a resource, used to share rule groups between accounts	Permissions management	<a href="#">rulegroup*</a> -		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TagResource</a>	Grants permission to associate tags with a AWS resource	Tagging	<a href="#">ipset</a>		
			<a href="#">regexpatternset</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to disassociate tags from an AWS resource	Tagging	<a href="#">ipset</a>		
			<a href="#">regexpatternset</a>		
			<a href="#">rulegroup</a>		
			<a href="#">webacl</a>		
				<a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIPSet</a>	Grants permission to update an IPSet	Write	<a href="#">ipset*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateManagedRuleSetVersionExpiryDate</a>	Grants permission to update the expiry date of a version in ManagedRuleSet	Write	<a href="#">managedruleset*</a>		
<a href="#">UpdateRegexPatternSet</a>	Grants permission to update a RegexPatternSet	Write	<a href="#">regexpatternset*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateRuleGroup</a>	Grants permission to update a RuleGroup	Write	<a href="#">rulegroup*</a> <a href="#">ipset</a> <a href="#">regexpatternset</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateWebACL</a>	Grants permission to update a WebACL	Write	<a href="#">webacl*</a>		
			<a href="#">ipset</a>		
			<a href="#">managedruleset</a>		
			<a href="#">regexpatternset</a>		
			<a href="#">rulegroup</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS WAF V2

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">webacl</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/webacl/\${Name}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">ipset</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/ipset/\${Name}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">managedruleset</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/managedruleset/\${Name}/\${Id}	
<a href="#">rulegroup</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/rulegroup/\${Name}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">regexpatternset</a>	arn:\${Partition}:wafv2:\${Region}:\${Account}:\${Scope}/regexpatternset/\${Name}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">loadbalancer/app/</a>	arn:\${Partition}:elasticloadbalancing:\${Region}:\${Account}:loadbalancer/app/\${LoadBalancerName}/\${LoadBalancerId}	
<a href="#">apigateway</a>	arn:\${Partition}:apigateway:\${Region}::/restapis/\${ApiId}/stages/\${StageName}	
<a href="#">appsync</a>	arn:\${Partition}:appsync:\${Region}:\${Account}:apis/\${GraphQLAPIId}	
<a href="#">userpool</a>	arn:\${Partition}:cognito-idp:\${Region}:\${Account}:userpool/\${UserPoolId}	
<a href="#">apprunner</a>	arn:\${Partition}:apprunner:\${Region}:\${Account}:service/\${ServiceName}/\${ServiceId}	

Resource types	ARN	Condition keys
<a href="#">verified-access-instance</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:verified-access-instance/\${VerifiedAccessInstanceId}	
<a href="#">amplify-app</a>	arn:\${Partition}:amplify:\${Region}:\${Account}:apps/\${AppId}	

## Condition keys for AWS WAF V2

AWS WAF V2 defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the allowed set of values for each of the tags	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag-value associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the presence of mandatory tags in the request	ArrayOfString
<a href="#">wafv2:LogDestinationResource</a>	Filters access by log destination ARN for PutLoggingConfiguration API	ARN
<a href="#">wafv2:LogScope</a>	Filters access by log scope for Logging Configuration API	String

## Actions, resources, and condition keys for AWS Well-Architected Tool

AWS Well-Architected Tool (service prefix: `wellarchitected`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Well-Architected Tool](#)
- [Resource types defined by AWS Well-Architected Tool](#)
- [Condition keys for AWS Well-Architected Tool](#)

## Actions defined by AWS Well-Architected Tool

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Lenses</a>	Grants permission to associate a lens to the specified workload	Write	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">Associate Profiles</a>	Grants permission to associate a profile to the specified workload	Write	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Configure Integration</a> [permission only]	Grants permission to configure the integration	Write		<a href="#">\${TagKey}</a>	
<a href="#">CreateLensShare</a>	Grants permission to an owner of a lens to share with other AWS accounts and IAM users	Write	<a href="#">lens*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateLensVersion</a>	Grants permission to create a new lens version	Write	<a href="#">lens*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateMilestone</a>	Grants permission to create a new milestone for the specified workload	Write	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateProfile</a>	Grants permission to create a new profile	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateProfileShare</a>	Grants permission to an owner of a profile to share with other AWS accounts and IAM users	Write	<a href="#">profile*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">CreateReviewTemplate</a>	Grants permission to create a new review template	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateTemplateShare</a>	Grants permission to an owner of a review template to share with other AWS accounts and IAM users	Write	<a href="#">review-template*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateWorkload</a>	Grants permission to create a new workload	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a> <a href="#">wellarchitected:JiraProjectKey</a>	
<a href="#">CreateWorkloadShare</a>	Grants permission to share a workload with another account	Write	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLens</a>	Grants permission to delete a lens	Write	<a href="#">lens*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteLensShare</a>	Grants permission to delete an existing lens share	Write	<a href="#">lens*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteProfile</a>	Grants permission to delete a profile	Write	<a href="#">profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteProfileShare</a>	Grants permission to delete an existing profile share	Write	<a href="#">profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteReviewTemplate</a>	Grants permission to delete an existing review template	Write	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteTemplateShare</a>	Grants permission to delete an existing review template share	Write	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteWorkload</a>	Grants permission to delete an existing workload	Write	<a href="#">workload*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteWorkloadShare</a>	Grants permission to delete an existing workload share	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateLenses</a>	Grants permission to disassociate a lens from the specified workload	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DisassociateProfiles</a>	Grants permission to disassociate a profile from the specified workload	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ExportLens</a>	Grants permission to export an existing lens	Read	<a href="#">lens*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetAnswer</a>	Grants permission to retrieve the specified answer from the specified lens review	Read	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetConsolidatedReport</a>	Grants permission to get consolidated report metrics or to generate the consolidated report PDF in this account	Read			
<a href="#">GetGlobalSettings</a>	Grants permission to get all settings for the account	Read			
<a href="#">GetLens</a>	Grants permission to get an existing lens	Read	<a href="#">lens*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLensReview</a>	Grants permission to retrieve the specified lens review of the specified workload	Read	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLensReviewReport</a>	Grants permission to retrieve the report for the specified lens review	Read	<a href="#">workload*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetLensVersionDifference</a>	Grants permission to get the difference between the specified lens version and latest available lens version	Read	<a href="#">lens*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetMilestone</a>	Grants permission to retrieve the specified milestone of the specified workload	Read	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetProfile</a>	Grants permission to retrieve the specified profile	Read	<a href="#">profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetProfileTemplate</a>	Grants permission to retrieve the specified profile template	Read			
<a href="#">GetReviewTemplate</a>	Grants permission to retrieve the specified review template	Read	<a href="#">review-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetReviewTemplateAnswer</a>	Grants permission to retrieve the specified answer from the specified review template lens review	Read	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetReviewTemplateLensReview</a>	Grants permission to retrieve the specified lens review of the specified review template	Read	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetWorkload</a>	Grants permission to retrieve the specified workload	Read	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportLens</a>	Grants permission to import a new lens	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">ListAnswers</a>	Grants permission to list the answers from the specified lens review	List	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCheckDetails</a>	Grants permission to list the check-details for the workload	List	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListCheckSummaries</a>	Grants permission to list the check-summaries for the workload	List	<a href="#">workload*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListLensReviewImprovements</a>	Grants permission to list the improvements of the specified lens review	List	<a href="#">workload*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListLensReviews</a>	Grants permission to list the lens reviews of the specified workload	List	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListLensShares</a>	Grants permission to list all shares created for a lens	List	<a href="#">lens*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListLenses</a>	Grants permission to list the lenses available to this account	List			
<a href="#">ListMilestones</a>	Grants permission to list the milestones of the specified workload	List	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListNotifications</a>	Grants permission to list notifications related to the account or specified resource	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListProfileNotifications</a>	Grants permission to list profile notifications related to specified resource	List			
<a href="#">ListProfileShares</a>	Grants permission to list all shares created for a profile	List	<a href="#">profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListProfiles</a>	Grants permission to list the profiles available to this account	List			
<a href="#">ListReviewTemplateAnswers</a>	Grants permission to list the answers from the specified review template lens review	List	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListReviewTemplates</a>	Grants permission to list the review templates available to this account	List			
<a href="#">ListShareInvitations</a>	Grants permission to list the workload share invitations of the specified account or user	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a Well-Architected resource	Read	<a href="#">lens</a>		
			<a href="#">profile</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">review-template</a>		
			<a href="#">workload</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListTemplateShares</a>	Grants permission to list all shares created for a review template	List	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListWorkloadShares</a>	Grants permission to list the workload shares of the specified workload	List	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListWorkloads</a>	Grants permission to list the workloads in this account	List			
<a href="#">TagResource</a>	Grants permission to tag a Well-Architected resource	Tagging	<a href="#">lens</a>		
			<a href="#">profile</a>		
			<a href="#">review-template</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workload</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag a Well-Architected resource	Tagging	<a href="#">lens</a>		
			<a href="#">profile</a>		
			<a href="#">review-template</a>		
			<a href="#">workload</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAnswer</a>	Grants permission to update properties of the specified answer	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateGlobalSettings</a>	Grants permission to manage all settings for the account	Write		<a href="#">wellarchitected:JiraProjectKey</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateIntegration</a>	Grants permission to update properties of the integration	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateLensReview</a>	Grants permission to update properties of the specified lens review	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateProfile</a>	Grants permission to update properties of the specified profile	Write	<a href="#">profile*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateReviewTemplate</a>	Grants permission to update properties of the specified review template	Write	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateReviewTemplateAnswer</a>	Grants permission to update properties of the specified review template answer	Write	<a href="#">review-template*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateReviewTemplateLensReview</a>	Grants permission to update properties of the specified review template lens review	Write	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateShareInvitation</a>	Grants permission to update status of the specified workload share invitation	Write			
<a href="#">UpdateWorkload</a>	Grants permission to update properties of the specified workload	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
				<a href="#">wellarchitected:JiraProjectKey</a>	
<a href="#">UpdateWorkloadShare</a>	Grants permission to update properties of the specified workload share	Write	<a href="#">workload*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpgradeLensReview</a>	Grants permission to upgrade the specified lens review to use the latest version of the associated lens	Write	<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpgradeProfileVersion</a>	Grants permission to upgrade the specified workload to use the latest version of the associated profile	Write	<a href="#">profile*</a>		
			<a href="#">workload*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpgradeReviewTemplateLensReview</a>	Grants permission to upgrade the specified lens review of the specified review template	Write	<a href="#">review-template*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by AWS Well-Architected Tool

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types



that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">workload</a>	arn:\${Partition}:wellarchitected:\${Region}:\${Account}:workload/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">lens</a>	arn:\${Partition}:wellarchitected:\${Region}:\${Account}:lens/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">profile</a>	arn:\${Partition}:wellarchitected:\${Region}:\${Account}:profile/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">review-template</a>	arn:\${Partition}:wellarchitected:\${Region}:\${Account}:review-template/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Well-Architected Tool

AWS Well-Architected Tool defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by tag key-value pairs in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by tag keys in the request	ArrayOfString
<a href="#">wellarchitected:JiraProjectKey</a>	Filters access by project key	String

## Actions, resources, and condition keys for AWS Wickr

AWS Wickr (service prefix: `wickr`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS Wickr](#)
- [Resource types defined by AWS Wickr](#)
- [Condition keys for AWS Wickr](#)

## Actions defined by AWS Wickr


You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchCreateUser</a>	Grants permission to batch create users in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">BatchDeleteUser</a>	Grants permission to batch delete users from a Wickr network	Write	<a href="#">network*</a>		
<a href="#">BatchLookupUserName</a>	Grants permission to batch lookup user unames in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">BatchReinviteUser</a>	Grants permission to batch reinvite users in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">BatchResetDevicesForUser</a>	Grants permission to batch reset devices for a user in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">BatchToggleUserSuspendStatus</a>	Grants permission to batch toggle user suspend status in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">CreateAdminSession</a>	Grants permission to create and manage Wickr networks	Write	<a href="#">network*</a>		
<a href="#">CreateBot</a>	Grants permission to create a bot in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">CreateDataRetentionBot</a>	Grants permission to create a data retention bot in a Wickr network	Write	<a href="#">network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateDataRetentionBotChallenge</a>	Grants permission to create a data retention bot challenge in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">CreateNetwork</a>	Grants permission to create a new Wickr network	Write	<a href="#">network*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateSecurityGroup</a>	Grants permission to create a security group in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">DeleteBot</a>	Grants permission to delete a bot from a Wickr network	Write	<a href="#">network*</a>		
<a href="#">DeleteDataRetentionBot</a>	Grants permission to delete a data retention bot from a Wickr network	Write	<a href="#">network*</a>		
<a href="#">DeleteNetwork</a>	Grants permission to delete Wickr networks	Write	<a href="#">network*</a>		
<a href="#">DeleteSecurityGroup</a>	Grants permission to delete a security group from a Wickr network	Write	<a href="#">network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetBot</a>	Grants permission to get bot information in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetBotsCount</a>	Grants permission to get bot count for a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetDataRetentionBot</a>	Grants permission to get data retention bot information in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetGuestUserHistoryCount</a>	Grants permission to get guest user history count for a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetNetwork</a>	Grants permission to get details of a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetNetworkSettings</a>	Grants permission to get network settings for a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetOidcInfo</a>	Grants permission to get OIDC information for a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetSecurityGroup</a>	Grants permission to get security group information in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">GetUser</a>	Grants permission to get information about a user in a Wickr network	Read	<a href="#">network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUsersCount</a>	Grants permission to get user count for a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListBlockedGuestUsers</a>	Grants permission to list blocked guest users in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListBots</a>	Grants permission to list bots in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListDevicesForUser</a>	Grants permission to list devices for a user in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListGuestUsers</a>	Grants permission to list guest users in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListNetworks</a>	Grants permission to list Wickr networks	Read			
<a href="#">ListSecurityGroupUsers</a>	Grants permission to list users in a security group in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListSecurityGroups</a>	Grants permission to list security groups in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags applied to a Wickr resource	Read	<a href="#">network*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListUsers</a>	Grants permission to list users in a Wickr network	Read	<a href="#">network*</a>		
<a href="#">RegisterOidcConfig</a>	Grants permission to register OIDC configuration for a Wickr network	Write	<a href="#">network*</a>		
<a href="#">RegisterOidcConfigTest</a>	Grants permission to test OIDC configuration for a Wickr network	Write	<a href="#">network*</a>		
<a href="#">TagResource</a>	Grants permission to add tags to a specified Wickr resource	Tagging	<a href="#">network*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to untag the specified tags from the specified Wickr resource	Tagging	<a href="#">network*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBot</a>	Grants permission to update a bot in a Wickr network	Write	<a href="#">network*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateDataRetention</a>	Grants permission to update data retention settings in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">UpdateGuestUser</a>	Grants permission to update guest user status in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">UpdateNetworkDetails</a>	Grants permission to update Wickr network details	Write	<a href="#">network*</a>		
<a href="#">UpdateNetworkSettings</a>	Grants permission to update network settings for a Wickr network	Write	<a href="#">network*</a>		
<a href="#">UpdateSecurityGroup</a>	Grants permission to update a security group in a Wickr network	Write	<a href="#">network*</a>		
<a href="#">UpdateUser</a>	Grants permission to update user information in a Wickr network	Write	<a href="#">network*</a>		

## Resource types defined by AWS Wickr

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">network</a>	arn:\${Partition}:wickr:\${Region}:\${Account}:network/\${NetworkId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS Wickr

AWS Wickr defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by a tag's key and value in a request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys in a request	ArrayOfString

## Actions, resources, and condition keys for Amazon WorkDocs

Amazon WorkDocs (service prefix: `workdocs`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon WorkDocs](#)
- [Resource types defined by Amazon WorkDocs](#)
- [Condition keys for Amazon WorkDocs](#)

## Actions defined by Amazon WorkDocs

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AbortDocumentVersionUpload</a>	Grants permission to abort the upload of the specified document version that was previously initiated by InitiateDocumentVersionUpload	Write			
<a href="#">ActivateUser</a>	Grants permission to activate the specified user. Only active users can access Amazon WorkDocs	Write			
<a href="#">AddNotificationPermissions</a> [permission only]	Grants permission to add principals that are allowed to call notification subscription APIs for a given WorkDocs site	Write			
<a href="#">AddResourcePermissions</a>	Grants permission to create a set of permissions for the specified folder or document	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AddUserToGroup</a> [permission only]	Grants permission to add a user to a group	Write			
<a href="#">CheckAlias</a> [permission only]	Grants permission to check an alias	Read			
<a href="#">CreateComment</a>	Grants permission to add a new comment to the specified document version	Write			
<a href="#">CreateCustomMetadata</a>	Grants permission to add one or more custom properties to the specified resource	Write			
<a href="#">CreateFolder</a>	Grants permission to create a folder with the specified name and parent folder	Write			
<a href="#">CreateInstance</a> [permission only]	Grants permission to create an instance	Write			
<a href="#">CreateLabels</a>	Grants permission to add labels to the given resource	Write			
<a href="#">CreateNotificationSubscription</a>	Grants permission to configure WorkDocs to use Amazon SNS notifications	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateUser</a>	Grants permission to create a user in a Simple AD or Microsoft AD directory	Write			
<a href="#">DeactivateUser</a>	Grants permission to deactivate the specified user, which revokes the user's access to Amazon WorkDocs	Write			
<a href="#">DeleteComment</a>	Grants permission to delete the specified comment from the document version	Write			
<a href="#">DeleteCustomMetadata</a>	Grants permission to delete custom metadata from the specified resource	Write			
<a href="#">DeleteDocument</a>	Grants permission to permanently delete the specified document and its associated metadata	Write			
<a href="#">DeleteDocumentVersion</a>	Grants permission to delete versions of a specified document	Write			
<a href="#">DeleteFolder</a>	Grants permission to permanently delete the specified folder and its contents	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteFolderContents</a>	Grants permission to delete the contents of the specified folder	Write			
<a href="#">DeleteInstance</a> [permission only]	Grants permission to delete an instance	Write			
<a href="#">DeleteLabels</a>	Grants permission to delete one or more labels from a resource	Write			
<a href="#">DeleteNotificationPermissions</a> [permission only]	Grants permission to delete principals that are allowed to call notification subscription APIs for a given WorkDocs site	Write			
<a href="#">DeleteNotificationSubscription</a>	Grants permission to delete the specified subscription from the specified organization	Write			
<a href="#">DeleteUser</a>	Grants permission to delete the specified user from a Simple AD or Microsoft AD directory	Write			
<a href="#">DeregisterDirectory</a> [permission only]	Grants permission to deregister a directory	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeActivities</a>	Grants permission to fetch user activities in a specified time period	List			
<a href="#">DescribeAvailableDirectories</a> [permission only]	Grants permission to describe available directories	List			
<a href="#">DescribeComments</a>	Grants permission to list all the comments for the specified document version	List			
<a href="#">DescribeDocumentVersions</a>	Grants permission to retrieve the document versions for the specified document	List			
<a href="#">DescribeFolderContents</a>	Grants permission to describe the contents of the specified folder, including its documents and sub-folders	List			
<a href="#">DescribeGroups</a>	Grants permission to describe the user groups	List			
<a href="#">DescribeInstanceExports</a> [permission only]	Grants permission to describe the export history for an instance	List			



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInstances</a> [permission only]	Grants permission to describe instances	List			
<a href="#">DescribeNotificationPermissions</a> [permission only]	Grants permission to describe principals that are allowed to call notification subscription APIs for a given WorkDocs site	List			
<a href="#">DescribeNotificationSubscriptions</a>	Grants permission to list the specified notification subscriptions	List			
<a href="#">DescribeResourcePermissions</a>	Grants permission to view a description of a specified resource's permissions	List			
<a href="#">DescribeRootFolders</a>	Grants permission to describe the root folders	List			
<a href="#">DescribeUsers</a>	Grants permission to view a description of the specified users. You can describe all users or filter the results (for example, by status or organization)	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DownloadDocumentVersion</a> [permission only]	Grants permission to download a specified document version	Read			
<a href="#">GetCurrentUser</a>	Grants permission to retrieve the details of the current user	Read			
<a href="#">GetDocument</a>	Grants permission to retrieve the specified document object	Read			
<a href="#">GetDocumentPath</a>	Grants permission to retrieve the path information (the hierarchy from the root folder) for the requested document	Read			
<a href="#">GetDocumentVersion</a>	Grants permission to retrieve version metadata for the specified document	Read			
<a href="#">GetFolder</a>	Grants permission to retrieve the metadata of the specified folder	Read			
<a href="#">GetFolderPath</a>	Grants permission to retrieve the path information (the hierarchy from the root folder) for the specified folder	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetGroup</a> [permission only]	Grants permission to retrieve details for the specified group	Read			
<a href="#">GetResources</a>	Grants permission to get a collection of resources	Read			
<a href="#">InitiateDocumentVersionUpload</a>	Grants permission to create a new document object and version object	Write			
<a href="#">RegisterDirectory</a> [permission only]	Grants permission to register a directory	Write			
<a href="#">RemoveAllResourcePermissions</a>	Grants permission to remove all the permissions from the specified resource	Write			
<a href="#">RemoveResourcePermission</a>	Grants permission to remove the permission for the specified principal from the specified resource	Write			
<a href="#">RestoreDocumentVersions</a>	Grants permission to restore versions of a specified document	Write			
<a href="#">SearchResources</a>	Grants permission to search metadata and the content of resources	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">StartInstanceExport</a> [permission only]	Grants permission to start an export for an instance	Write	<a href="#">organization*</a>		
<a href="#">UpdateDocument</a>	Grants permission to update the specified attributes of the specified document	Write			
<a href="#">UpdateDocumentVersion</a>	Grants permission to change the status of the document version to ACTIVE	Write			
<a href="#">UpdateFolder</a>	Grants permission to update the specified attributes of the specified folder	Write			
<a href="#">UpdateInstanceAlias</a> [permission only]	Grants permission to update an instance alias	Write			
<a href="#">UpdateUser</a>	Grants permission to update the specified attributes of the specified user, and grants or revokes administrative privileges to the Amazon WorkDocs site	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateUseAdministrativeSettings</a> [permission only]	Grants permission to update the administrative settings for a user	Write			

## Resource types defined by Amazon WorkDocs

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">organization</a>	arn:\${Partition}:workdocs:\${Region}:\${Account}:organization/\${ResourceId}	

## Condition keys for Amazon WorkDocs

WorkDocs has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon WorkLink

Amazon WorkLink (service prefix: `worklink`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon WorkLink](#)
- [Resource types defined by Amazon WorkLink](#)
- [Condition keys for Amazon WorkLink](#)

## Actions defined by Amazon WorkLink

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type

is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Domain</a>	Grants permission to associate a domain with an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">Associate WebsiteAuthorizationProvider</a>	Grants permission to associate a website authorization provider with an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">Associate WebsiteCertificate</a>	Grants permission to associate a website certificate	Write	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AuthenticateAuthority</a>	Authenticate authority with an Amazon WorkLink fleet				
<a href="#">CreateFleet</a>	Grants permission to create an Amazon WorkLink fleet	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteFleet</a>	Grants permission to delete an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DescribeAuditStreamConfiguration</a>	Grants permission to describe the audit stream configuration for an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		
<a href="#">DescribeCompanyNetworkConfiguration</a>	Grants permission to describe the company network configuration for an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeDevice</a>	Grants permission to describe details of a device associated with an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		
<a href="#">DescribeDevicePolicyConfiguration</a>	Grants permission to describe the device policy configuration for an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		
<a href="#">DescribeDomain</a>	Grants permission to describe details about a domain associated with an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		
<a href="#">DescribeFleetMetadata</a>	Grants permission to describe metadata of an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">DescribeIdentityProviderConfiguration</a>	Grants permission to describe the identity provider configuration for an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWebsiteCertificateAuthority</a>	Grants permission to describe a website certificate authority associated with an Amazon WorkLink fleet	Read	<a href="#">fleet*</a>		
<a href="#">DisassociateDomain</a>	Grants permission to disassociate a domain from an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">DisassociateWebsiteAuthorizationProvider</a>	Grants permission to disassociate a website authorization provider from an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">DisassociateWebsiteCertificateAuthority</a>	Grants permission to disassociate a website certificate authority from an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">ListDevices</a>	Grants permission to list the devices associated with an Amazon WorkLink fleet	List	<a href="#">fleet*</a>		
<a href="#">ListDomains</a>	Grants permission to list the associated domains for an Amazon WorkLink fleet	List	<a href="#">fleet*</a>		
<a href="#">ListFleets</a>	Grants permission to list the Amazon WorkLink fleets associated with the account	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListWebsiteAuthorizationProviders</a>	Grants permission to list the website authorization providers for an Amazon WorkLink fleet	List	<a href="#">fleet*</a>		
<a href="#">ListWebsiteCertificateAuthorities</a>	Grants permission to list the website certificate authorities associated with an Amazon WorkLink fleet	List	<a href="#">fleet*</a>		
<a href="#">RestoreDomainAccess</a>	Grants permission to restore access to a domain associated with an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">RevokeDomainAccess</a>	Grants permission to revoke access to a domain associated with an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">SearchEntity</a> [permission only]	Grants permission to list devices for an Amazon WorkLink fleet	List	<a href="#">fleet*</a>		
<a href="#">SignOutUser</a>	Grants permission to sign out a user from an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">fleet*</a>	<a href="#">aws:TagKeys</a>	
<a href="#">UpdateAuditStreamConfiguration</a>	Grants permission to update the audit stream configuration for an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateCompanyNetworkConfiguration</a>	Grants permission to update the company network configuration for an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateDevicePolicyConfiguration</a>	Grants permission to update the device policy configuration for an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateDomainMetadata</a>	Grants permission to update the metadata for a domain associated with an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateFleetMetadata</a>	Grants permission to update the metadata of an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		
<a href="#">UpdateIdentityProviderConfiguration</a>	Grants permission to update the identity provider configuration for an Amazon WorkLink fleet	Write	<a href="#">fleet*</a>		

## Resource types defined by Amazon WorkLink

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">fleet</a>	arn:\${Partition}:worklink::\${Account}:fleet/\${FleetName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon WorkLink

Amazon WorkLink defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters actions based on the presence of tag key-value pairs in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters actions based on tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters actions based on the presence of tag keys in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon WorkMail

Amazon WorkMail (service prefix: `workmail`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon WorkMail](#)
- [Resource types defined by Amazon WorkMail](#)
- [Condition keys for Amazon WorkMail](#)

## Actions defined by Amazon WorkMail

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AllowVendedLogDeliveryForResource</a> [permission only]	Grants permission to configure vended log delivery for WorkMail audit logs	Write	<a href="#">organization*</a>		
<a href="#">AssociateDelegateToResource</a>	Grants permission to add a member (user or group) to the resource's set of delegates	Write	<a href="#">organization*</a>		
<a href="#">AssociateMemberToGroup</a>	Grants permission to add a member (user or group) to the group's set	Write	<a href="#">organization*</a>		
<a href="#">AssumeImpersonationRole</a>	Grants permission to assume an impersonation role for the given Amazon WorkMail organization	Write	<a href="#">organization*</a>	<a href="#">workmail: ImpersonationRoleId</a>	
<a href="#">CancelMailboxExportJob</a>	Grants permission to cancel a currently running mailbox export job	Write	<a href="#">organization*</a>		
<a href="#">CreateAlias</a>	Grants permission to add an alias to the set of a given member (user or group) of WorkMail	Write	<a href="#">organization*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateAvailabilityConfiguration</a>	Grants permission to create an AvailabilityConfiguration for the given Amazon WorkMail organization and domain	Write	<a href="#">organization*</a>		
<a href="#">CreateGroup</a>	Grants permission to create a group that can be used in WorkMail by calling the RegisterToWorkMail operation	Write	<a href="#">organization*</a>		
<a href="#">CreateIdentityCenterApplication</a>	Grants permission to create an Identity Center application for WorkMail	Write			
<a href="#">CreateImpersonationRole</a>	Grants permission to create an impersonation role for the given Amazon WorkMail organization	Write	<a href="#">organization*</a>		
<a href="#">CreateInboundMailFlowRule</a> [permission only]	Grants permission to create an inbound email flow rule which will apply to all email sent to an organization	Write	<a href="#">organization*</a>		
<a href="#">CreateMailDomain</a> [permission only]	Grants permission to create a mail domain	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateMobileDeviceAccessRule</a>	Grants permission to create a new mobile device access rule	Write	<a href="#">organization*</a>		
<a href="#">CreateOrganization</a>	Grants permission to create a new Amazon WorkMail organization	Write			
<a href="#">CreateOutboundMailFlowRule</a> [permission only]	Grants permission to create an outbound email flow rule which will apply to all email sent from an organization	Write	<a href="#">organization*</a>		
<a href="#">CreateResource</a>	Grants permission to create a new WorkMail resource	Write	<a href="#">organization*</a>		
<a href="#">CreateSMTPGateway</a> [permission only]	Grants permission to register an SMTP gateway to a WorkMail organization	Write	<a href="#">organization*</a>		
<a href="#">CreateUser</a>	Grants permission to create a user, which can be enabled afterwards by calling the RegisterToWorkMail operation	Write	<a href="#">organization*</a>		
<a href="#">DeleteAccessControlRule</a>	Grants permission to delete an access control rule	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAlias</a>	Grants permission to remove one or more specified aliases from a set of aliases for a given user	Write	<a href="#">organization*</a>		
<a href="#">DeleteAvailabilityConfiguration</a>	Grants permission to delete the AvailabilityConfiguration for the given Amazon WorkMail organization and domain	Write	<a href="#">organization*</a>		
<a href="#">DeleteEmailMonitoringConfiguration</a>	Grants permission to delete the email monitoring configuration for an organization	Write	<a href="#">organization*</a>		
<a href="#">DeleteGroup</a>	Grants permission to delete a group from WorkMail	Write	<a href="#">organization*</a>		
<a href="#">DeleteIdentityCenterApplication</a>	Grants permission to delete an Identity Center application for WorkMail	Write			
<a href="#">DeleteIdentityProviderConfiguration</a>	Grants permission to delete the identity provider configuration for the organization	Write	<a href="#">organization*</a>		
<a href="#">DeleteImpersonationRole</a>	Grants permission to delete an impersonation role for the given Amazon WorkMail organization	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteInboundMailFlowRule</a> [permission only]	Grants permission to remove an inbound email flow rule to no longer apply to emails sent to an organization	Write	<a href="#">organization*</a>		
<a href="#">DeleteMailDomain</a> [permission only]	Grants permission to remove an unused mail domain from an organization	Write	<a href="#">organization*</a>		
<a href="#">DeleteMailboxPermissions</a>	Grants permission to delete permissions granted to a member (user or group)	Write	<a href="#">organization*</a>		
<a href="#">DeleteMobileDevice</a> [permission only]	Grants permission to remove a mobile device from a user	Write	<a href="#">organization*</a>		
<a href="#">DeleteMobileDeviceAccessOverride</a>	Grants permission to delete a mobile device access override	Write	<a href="#">organization*</a>		
<a href="#">DeleteMobileDeviceAccessRule</a>	Grants permission to delete a mobile device access rule	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteOrganization</a>	Grants permission to delete an Amazon WorkMail organization and all underlying AWS resources managed by Amazon WorkMail as part of the organization	Write	<a href="#">organization*</a>		
<a href="#">DeleteOutboundMailFlowRule</a> [permission only]	Grants permission to remove an outbound email flow rule so that it no longer applies to emails sent from an organization	Write	<a href="#">organization*</a>		
<a href="#">DeletePersonalAccessToken</a>	Grants permission to delete a personal access token	Write	<a href="#">organization*</a>		
<a href="#">DeleteResource</a>	Grants permission to delete the specified resource	Write	<a href="#">organization*</a>		
<a href="#">DeleteRetentionPolicy</a>	Grants permission to delete the retention policy based on the supplied organization and policy identifiers	Write	<a href="#">organization*</a>		
<a href="#">DeleteSmtGateway</a> [permission only]	Grants permission to remove an SMTP gateway from an organization	Write	<a href="#">organization*</a>		
<a href="#">DeleteUser</a>	Grants permission to delete a user from WorkMail and all subsequent systems	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeliverToMailbox</a> [permission only]	Grants permission to deliver emails to a WorkMail organization via the SES MailManager DeliverToMailbox action	Write	<a href="#">organization*</a>		
<a href="#">DeregisterFromWorkMail</a>	Grants permission to mark a user, group, or resource as no longer used in WorkMail	Write	<a href="#">organization*</a>		
<a href="#">DeregisterMailDomain</a>	Grants permission to deregister a mail domain from an organization	Write	<a href="#">organization*</a>		
<a href="#">DescribeEmailMonitoringConfiguration</a>	Grants permission to retrieve the email monitoring configuration for an organization	Read	<a href="#">organization*</a>		
<a href="#">DescribeEntity</a>	Grants permission to read details of an entity	Read	<a href="#">organization*</a>		
<a href="#">DescribeGroup</a>	Grants permission to read the details for a group	List	<a href="#">organization*</a>		
<a href="#">DescribeIdentityProviderConfiguration</a>	Grants permission to read the identity provider configuration for the organization	Read	<a href="#">organization*</a>		
<a href="#">DescribeDmarcSettings</a>	Grants permission to read the settings in a DMARC policy for a specified organization	Read	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeInboundMailFlowRule</a> [permission only]	Grants permission to read the details of an inbound mail flow rule configured for an organization	Read	<a href="#">organization*</a>		
<a href="#">DescribeMailDomains</a> [permission only]	Grants permission to show the details of all mail domains associated with the organization	List	<a href="#">organization*</a>		
<a href="#">DescribeMailboxExportJob</a>	Grants permission to retrieve details of a mailbox export job	Read	<a href="#">organization*</a>		
<a href="#">DescribeOrganization</a>	Grants permission to read details of an organization	List	<a href="#">organization*</a>		
<a href="#">DescribeOutboundMailFlowRule</a> [permission only]	Grants permission to read the details of an outbound mail flow rule configured for an organization	Read	<a href="#">organization*</a>		
<a href="#">DescribeResource</a>	Grants permission to read the details for a resource	List	<a href="#">organization*</a>		
<a href="#">DescribeSMTPGateway</a> [permission only]	Grants permission to read the details of an SMTP gateway registered to an organization	Read	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeUser</a>	Grants permission to read details for a user	List	<a href="#">organization*</a>		
<a href="#">DisassociateDelegateFromResource</a>	Grants permission to remove a member from the resource's set of delegates	Write	<a href="#">organization*</a>		
<a href="#">DisassociateMemberFromGroup</a>	Grants permission to remove a member from a group	Write	<a href="#">organization*</a>		
<a href="#">EnableMailDomain</a> [permission only]	Grants permission to enable a mail domain in the organization	Write	<a href="#">organization*</a>		
<a href="#">GetAccessControlEffect</a>	Grants permission to get the effects of access control rules as they apply to a specified IPv4 address, access protocol action, or user ID	Read	<a href="#">organization*</a>		
<a href="#">GetDefaultRetentionPolicy</a>	Grants permission to retrieve the retention policy associated at an organizational level	Read	<a href="#">organization*</a>		
<a href="#">GetImpersonationRole</a>	Grants permission to retrieve an impersonation role for the given Amazon WorkMail organization	Read	<a href="#">organization*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetImpersonationRoleEffect</a>	Grants permission to get the effect of the rules associated to an impersonation role for a specific user	Read	<a href="#">organization*</a>		
<a href="#">GetJournalingRules</a> [permission only]	Grants permission to read the configured journaling and fallback email addresses for email journaling	Read	<a href="#">organization*</a>		
<a href="#">GetMailDomain</a>	Grants permission to retrieve details of a given mail domain in an organization	Read	<a href="#">organization*</a>		
<a href="#">GetMailDomainDetails</a> [permission only]	Grants permission to get the details of the mail domain	Read	<a href="#">organization*</a>		
<a href="#">GetMailboxDetails</a>	Grants permission to read the details of the user's mailbox	Read	<a href="#">organization*</a>		
<a href="#">GetMobileDeviceAccessEffect</a>	Grants permission to simulate the effect of the mobile device access rules for the given attributes of a sample access event	Read	<a href="#">organization*</a>		
<a href="#">GetMobileDeviceAccessOverride</a>	Grants permission to retrieve a mobile device access override	Read	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetMobileDeviceDetails</a> [permission only]	Grants permission to get the details of the mobile device	Read	<a href="#">organization*</a>		
<a href="#">GetMobileDevicesForUser</a> [permission only]	Grants permission to get a list of the mobile devices associated with the user	Read	<a href="#">organization*</a>		
<a href="#">GetMobilePolicyDetails</a> [permission only]	Grants permission to get the details of the mobile device policy associated with the organization	Read	<a href="#">organization*</a>		
<a href="#">GetPersonalAccessTokenMetadata</a>	Grants permission to read metadata for a personal access token	Read	<a href="#">organization*</a>		
<a href="#">ListAccessControlRules</a>	Grants permission to list the access control rules	Read	<a href="#">organization*</a>		
<a href="#">ListAliases</a>	Grants permission to list the aliases associated with a given entity	List	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListAvailabilityConfigurations</a>	Grants permission to list all the AvailabilityConfiguration's for the given Amazon WorkMail organization	Read	<a href="#">organization*</a>		
<a href="#">ListGroupMembers</a>	Grants permission to read an overview of the members of a group. Users and groups can be members of a group	List	<a href="#">organization*</a>		
<a href="#">ListGroups</a>	Grants permission to list summaries of the organization's groups	List	<a href="#">organization*</a>		
<a href="#">ListGroupsForEntity</a>	Grants permission to list the groups to which an entity belongs	List	<a href="#">organization*</a>		
<a href="#">ListImpersonationRoles</a>	Grants permission to list the impersonation roles for the given Amazon WorkMail organization	List	<a href="#">organization*</a>		
<a href="#">ListInboundMailFlowRules</a> [permission only]	Grants permission to list inbound mail flow rules configured for an organization	List	<a href="#">organization*</a>		
<a href="#">ListMailDomains</a>	Grants permission to list the mail domains for a given organization	List	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListMailboxExportJobs</a>	Grants permission to list mailbox export jobs	List	<a href="#">organization*</a>		
<a href="#">ListMailboxPermissions</a>	Grants permission to list the mailbox permissions associated with a user, group, or resource mailbox	List	<a href="#">organization*</a>		
<a href="#">ListMobileDeviceAccessOverrides</a>	Grants permission to list the mobile device access overrides	Read	<a href="#">organization*</a>		
<a href="#">ListMobileDeviceAccessRules</a>	Grants permission to list the mobile device access rules	Read	<a href="#">organization*</a>		
<a href="#">ListOrganizations</a>	Grants permission to list the non-deleted organizations	List			
<a href="#">ListOutboundMailFlowRules</a> [permission only]	Grants permission to list outbound mail flow rules configured for an organization	List	<a href="#">organization*</a>		
<a href="#">ListPersonalAccessTokens</a>	Grants permission to list metadata for personal access tokens	List	<a href="#">organization*</a>		
<a href="#">ListResourceDelegates</a>	Grants permission to list the delegates associated with a resource	List	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResources</a>	Grants permission to list the organization's resources	List	<a href="#">organization*</a>		
<a href="#">ListSmtgGateways</a> [permission only]	Grants permission to list SMTP gateways registered to the organization	List	<a href="#">organization*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list the tags applied to an Amazon WorkMail organization resource	List	<a href="#">organization*</a>	<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">ListUsers</a>	Grants permission to list the organization's users	List	<a href="#">organization*</a>		
<a href="#">PutAccessControlRule</a>	Grants permission to add a new access control rule	Write	<a href="#">organization*</a>		
<a href="#">PutEmailMonitoringConfiguration</a>	Grants permission to add or update the email monitoring configuration for an organization	Write	<a href="#">organization*</a>		
<a href="#">PutIdentityProviderConfiguration</a>	Grants permission to add or update the identity provider configuration for the organization	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutInboundDmarcSettings</a>	Grants permission to enable or disable a DMARC policy for a given organization	Write	<a href="#">organization*</a>		
<a href="#">PutMailboxPermissions</a>	Grants permission to set permissions for a user, group, or resource, replacing any existing permissions	Write	<a href="#">organization*</a>		
<a href="#">PutMobileDeviceAccessOverride</a>	Grants permission to add or update a mobile device access override	Write	<a href="#">organization*</a>		
<a href="#">PutRetentionPolicy</a>	Grants permission to add or update the retention policy	Write	<a href="#">organization*</a>		
<a href="#">RegisterMailDomain</a>	Grants permission to register a new mail domain in an organization	Write	<a href="#">organization*</a>		
<a href="#">RegisterWorkMail</a>	Grants permission to register an existing and disabled user, group, or resource for use by associating a mailbox and calendaring capabilities	Write	<a href="#">organization*</a>		
<a href="#">ResetPassword</a>	Grants permission to allow the administrator to reset the password for a user	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">SearchMembers</a> [permission only]	Grants permission to perform a prefix search to find a specific user in a mail group	Read	<a href="#">organization*</a>		
<a href="#">SetDefaultMailDomain</a> [permission only]	Grants permission to set the default mail domain for the organization	Write	<a href="#">organization*</a>		
<a href="#">SetJournalingRules</a> [permission only]	Grants permission to set journaling and fallback email addresses for email journaling	Write	<a href="#">organization*</a>		
<a href="#">SetMobilePolicyDetails</a> [permission only]	Grants permission to set the details of a mobile policy associated with the organization	Write	<a href="#">organization*</a>		
<a href="#">StartMailboxExportJob</a>	Grants permission to start a new mailbox export job	Write	<a href="#">organization*</a>		
<a href="#">TagResource</a>	Grants permission to tag the specified Amazon WorkMail organization resource	Tagging	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TestAvailabilityConfiguration</a>	Grants permission to perform a test on an availability provider to ensure that access is allowed	Read	<a href="#">organization*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">TestInboundMailFlowsRules</a> [permission only]	Grants permission to test what inbound rules will apply to an email with a given sender and recipient	Write	<a href="#">organization*</a>		
<a href="#">TestOutboundMailFlowsRules</a> [permission only]	Grants permission to test what outbound rules will apply to an email with a given sender and recipient	Write	<a href="#">organization*</a>		
<a href="#">UntagResource</a>	Grants permission to untag the specified Amazon WorkMail organization resource	Tagging	<a href="#">organization*</a>	<a href="#">aws:TagKeys</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateAvailabilityConfiguration</a>	Grants permission to update an existing AvailabilityConfiguration for the given Amazon WorkMail organization and domain	Write	<a href="#">organization*</a>		
<a href="#">UpdateDefaultMailDomain</a>	Grants permission to update which domain is the default domain for an organization	Write	<a href="#">organization*</a>		
<a href="#">UpdateGroup</a>	Grants permission to update details of a group	Write	<a href="#">organization*</a>		
<a href="#">UpdateImpersonationRole</a>	Grants permission to update an existing impersonation role for the given Amazon WorkMail organization	Write	<a href="#">organization*</a>		
<a href="#">UpdateInboundMailFlowRule</a> [permission only]	Grants permission to update the details of an inbound email flow rule which will apply to all email sent to an organization	Write	<a href="#">organization*</a>		
<a href="#">UpdateMailboxQuota</a>	Grants permission to update the maximum size (in MB) of the user's mailbox	Write	<a href="#">organization*</a>		
<a href="#">UpdateMobileDeviceAccessRule</a>	Grants permission to update a mobile device access rule	Write	<a href="#">organization*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateOutboundMailFlowRule</a> [permission only]	Grants permission to update the details of an outbound email flow rule which will apply to all email sent from an organization	Write	<a href="#">organization*</a>		
<a href="#">UpdatePrimaryEmailAddress</a>	Grants permission to update the primary email for a user, group, or resource	Write	<a href="#">organization*</a>		
<a href="#">UpdateResource</a>	Grants permission to update details for the resource	Write	<a href="#">organization*</a>		
<a href="#">UpdateSMTPGateway</a> [permission only]	Grants permission to update the details of an existing SMTP gateway registered to an organization	Write	<a href="#">organization*</a>		
<a href="#">UpdateUser</a>	Grants permission to update details of a user	Write	<a href="#">organization*</a>		
<a href="#">WipeMobileDevice</a> [permission only]	Grants permission to remotely wipe the mobile device associated with a user's account	Write	<a href="#">organization*</a>		

## Resource types defined by Amazon WorkMail

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">organization</a>	arn:\${Partition}:workmail:\${Region}:\${Account}:organization/\${ResourceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon WorkMail

Amazon WorkMail defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tag key-value pairs that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tag key-value pairs attached to the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString
<a href="#">workmail:ImpersonationRoleId</a>	Filters access by the ImpersonationRoleId that is passed in the request	String

## Actions, resources, and condition keys for Amazon WorkMail Message Flow

Amazon WorkMail Message Flow (service prefix: `workmailmessageflow`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon WorkMail Message Flow](#)
- [Resource types defined by Amazon WorkMail Message Flow](#)
- [Condition keys for Amazon WorkMail Message Flow](#)

### Actions defined by Amazon WorkMail Message Flow

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit

resource access with the **Resource** element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's **Condition** element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetRawMessageContent</a>	Grants permission to read the content of email messages with the specified message ID	Read	<a href="#">RawMessage*</a>		
<a href="#">PutRawMessageContent</a>	Grants permission to update the content of email messages with the specified message ID	Write	<a href="#">RawMessage*</a>		

## Resource types defined by Amazon WorkMail Message Flow

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">RawMessage</a>	arn:\${Partition}:workmailmessageflow:\${Region}:\${Account}:message/\${OrganizationId}/\${Context}/\${MessageId}	

## Condition keys for Amazon WorkMail Message Flow

WorkMail Message Flow has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for Amazon WorkSpaces

Amazon WorkSpaces (service prefix: workspaces) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon WorkSpaces](#)
- [Resource types defined by Amazon WorkSpaces](#)
- [Condition keys for Amazon WorkSpaces](#)

## Actions defined by Amazon WorkSpaces

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the

Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AcceptAccountLinkInvitation</a>	Grants permission to accept invitations from other AWS accounts to share the same configuration for WorkSpaces BYOL	Write			
<a href="#">AssociateConnectionAlias</a>	Grants permission to associate connection aliases with directories	Write	<a href="#">connectionalias*</a>		
			<a href="#">directoryid*</a>		
<a href="#">AssociateIpGroups</a>	Grants permission to associate IP access control groups with directories	Write	<a href="#">directoryid*</a>		
			<a href="#">workspaceipgroup*</a>		
<a href="#">AssociateWorkspaceApplication</a>	Grants permission to associate a workspace application with a Workspace	Write	<a href="#">workspaceapplication*</a>		
			<a href="#">workspaceid*</a>		
			<a href="#">aws:ResourceTag/</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">\${TagKey}</a>	
<a href="#">AuthorizeIpRules</a>	Grants permission to add rules to IP access control groups	Write	<a href="#">workspaceipgroup*</a>		workspace:UpdateRulesOfIpGroup
<a href="#">CopyWorkspaceImage</a>	Grants permission to copy a Workspace image	Write	<a href="#">workspaceimage*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	workspace:DescribeWorkspaceImages
<a href="#">CreateAccountLinkInvitation</a>	Grants permission to invite other AWS accounts to share the same configuration for WorkSpaces BYOL	Write			
<a href="#">CreateConnectClientAddIn</a>	Grants permission to create an Amazon Connect client add-in within a directory	Write	<a href="#">directoryid*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateConnectionAlias</a>	Grants permission to create connection aliases for use with cross-Region redirection	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateIPGroup</a>	Grants permission to create IP access control groups	Write		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateRootClientCertificate</a> [permission only]	Grants permission to create a root client certificate	Write	<a href="#">certificateid*</a>		
<a href="#">CreateStandbyWorkspaces</a>	Grants permission to create one or more Standby WorkSpaces	Write	<a href="#">directoryid*</a>		
			<a href="#">workspaceid*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateTags</a>	Grants permission to create tags for WorkSpaces resources	Tagging		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateUpdatedWorkspaceImage</a>	Grants permission to create an updated Workspace image	Write	<a href="#">workspace image*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkspaceBundle</a>	Grants permission to create a Workspace bundle	Write	<a href="#">workspace bundle*</a> <a href="#">workspace image*</a>		workspaces:CreateTags

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkspaceImage</a>	Grants permission to create a new Workspace image	Write	<a href="#">workspaceid*</a>	<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkspaces</a>	Grants permission to create one or more WorkSpaces	Write	<a href="#">directoryid*</a>  <a href="#">workspacebundle*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>  <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">workspace id*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">CreateWorkspacesPool</a>	Grants permission to create a WorkSpaces Pool	Write	<a href="#">directory id*</a>		
			<a href="#">workspace bundle*</a>		
			<a href="#">workspace spoolid*</a>		
				<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteAccountLinkInvitation</a>	Grants permission to delete invitations to other AWS accounts to share the same configuration for WorkSpaces BYOL	Write			
<a href="#">DeleteClientBranding</a>	Grants permission to delete AWS WorkSpaces Client branding data within a directory	Write	<a href="#">directory id*</a>		
<a href="#">DeleteConnectClientAddIn</a>	Grants permission to delete an Amazon Connect client add-in that is configured within a directory	Write	<a href="#">directory id*</a>		
<a href="#">DeleteConnectionAlias</a>	Grants permission to delete connection aliases	Write	<a href="#">connection alias*</a>		
<a href="#">DeleteIpGroup</a>	Grants permission to delete IP access control groups	Write	<a href="#">workspace ipgroup*</a>		
<a href="#">DeleteRootClientCertificate</a> [permission only]	Grants permission to delete root client certificate	Write	<a href="#">certificateid*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteTags</a>	Grants permission to delete tags from WorkSpaces resources	Tagging		<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteWorkspaceBundle</a>	Grants permission to delete WorkSpace bundles	Write	<a href="#">workspacebundle*</a>		
<a href="#">DeleteWorkspaceImage</a>	Grants permission to delete WorkSpace images	Write	<a href="#">workspaceimage*</a>		
<a href="#">DeployWorkspaceApplications</a>	Grants permission to deploy all pending workspace applications on a WorkSpace	Write	<a href="#">workspaceid*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeregisterWorkspaceDirectory</a>	Grants permission to deregister directories from use with Amazon WorkSpaces	Write	<a href="#">directoryid*</a>		
<a href="#">DescribeAccount</a>	Grants permission to retrieve the configuration of Bring Your Own License (BYOL) for WorkSpaces accounts	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeAccountModifications</a>	Grants permission to retrieve modifications to the configuration of Bring Your Own License (BYOL) for WorkSpaces accounts	Read			
<a href="#">DescribeApplicationAssociations</a>	Grants permission to retrieve information about resources associated with a WorkSpace application	List	<a href="#">workspaceapplication*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeApplications</a>	Grants permission to obtain information about WorkSpace applications	List			
<a href="#">DescribeBundleAssociations</a>	Grants permission to retrieve information about resources associated with a WorkSpace bundle	List	<a href="#">workspacebundle*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeClientBranding</a>	Grants permission to retrieve AWS WorkSpaces Client branding data within a directory	Read	<a href="#">directoryid*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeClientProperties</a>	Grants permission to retrieve information about WorkSpaces clients	List	<a href="#">directoryid*</a>		
<a href="#">DescribeConnectClientAddIns</a>	Grants permission to retrieve a list of Amazon Connect client add-ins that have been created	List	<a href="#">directoryid*</a>		
<a href="#">DescribeConnectionAliasPermissions</a>	Grants permission to retrieve the permissions that the owners of connection aliases have granted to other AWS accounts for connection aliases	Read	<a href="#">connectionalias*</a>		
<a href="#">DescribeConnectionAliases</a>	Grants permission to retrieve a list that describes the connection aliases used for cross-Region redirection	Read			
<a href="#">DescribeConsent</a> [permission only]	Grants permission to retrieve information about consent agreement to BYOL minimum requirements	Read			
<a href="#">DescribeCustomWorkspaceImageImport</a>	Grants permission to retrieve information about WorkSpace BYOL image import task	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeImageAssociations</a>	Grants permission to retrieve information about resources associated with a Workspace image	List	<a href="#">workspaceimage*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeIPGroups</a>	Grants permission to retrieve information about IP access control groups	Read	<a href="#">workspaceipgroup*</a>		
<a href="#">DescribeTags</a>	Grants permission to describe the tags for Workspace resources	Read			
<a href="#">DescribeWorkspaceAssociations</a>	Grants permission to retrieve information about resources associated with a Workspace	List	<a href="#">workspaceid*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DescribeWorkspaceBundles</a>	Grants permission to obtain information about Workspace bundles	List			
<a href="#">DescribeWorkspaceDirectories</a>	Grants permission to retrieve information about directories that are registered with WorkSpaces	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DescribeWorkspaceImagePermissions</a>	Grants permission to retrieve information about Workspace image permissions	Read	<a href="#">workspaceimage*</a>		
<a href="#">DescribeWorkspaceImages</a>	Grants permission to retrieve information about Workspace images	List			
<a href="#">DescribeWorkspaceSnapshots</a>	Grants permission to retrieve information about Workspace snapshots	List	<a href="#">workspaceid*</a>		
<a href="#">DescribeWorkspaces</a>	Grants permission to obtain information about WorkSpaces	List			
<a href="#">DescribeWorkspacesConnectionStatus</a>	Grants permission to obtain the connection status of WorkSpaces	Read			
<a href="#">DescribeWorkspacesPoolSessions</a>	Grants permission to retrieve information about the sessions of a WorkSpaces Pool	List	<a href="#">workspacepoolid*</a>		
<a href="#">DescribeWorkspacesPools</a>	Grants permission to retrieve information about WorkSpaces Pools	List			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DirectoryAccessManagement</a> [permission only]	Grants permission to directory management actions while managing and provisioning workspaces	List	<a href="#">directoryid*</a>		
<a href="#">DisassociateConnectionAlias</a>	Grants permission to disassociate connection aliases from directories	Write	<a href="#">connectionalias*</a>		
<a href="#">DisassociateIpGroups</a>	Grants permission to disassociate IP access control groups from directories	Write	<a href="#">directoryid*</a>		
			<a href="#">workspaceipgroup*</a>		
<a href="#">DisassociateWorkspaceApplication</a>	Grants permission to disassociate a workspace application from a Workspace	Write	<a href="#">workspaceapplication*</a>		
			<a href="#">workspaceid*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetAccountLink</a>	Grants permission to retrieve a link with another AWS Account for sharing configuration for WorkSpaces BYOL	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ImportClientBranding</a>	Grants permission to import AWS WorkSpaces Client branding data within a directory	Write	<a href="#">directory</a> <a href="#">id*</a>		
<a href="#">ImportCustomWorkspaceImage</a>	Grants permission to import Bring Your Own License (BYOL) images into Amazon WorkSpaces	Write			
<a href="#">ImportWorkspaceImage</a>	Grants permission to import Bring Your Own License (BYOL) images into Amazon WorkSpaces	Write			ec2:DescribeImages  ec2:ModifyImageAttribute
<a href="#">ListAccountLinks</a>	Grants permission to retrieve links with the AWS Account(s) that share your configuration for WorkSpaces BYOL	List			
<a href="#">ListAvailableManagementCidrRanges</a>	Grants permission to list the available CIDR ranges for enabling Bring Your Own License (BYOL) for WorkSpaces accounts	List			
<a href="#">MigrateWorkspace</a>	Grants permission to migrate WorkSpaces	Write	<a href="#">workspace</a> <a href="#">bundle*</a>		
			<a href="#">workspace</a> <a href="#">id*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyAccount</a>	Grants permission to modify the configuration of Bring Your Own License (BYOL) for WorkSpaces accounts	Write			
<a href="#">ModifyCertificateBasedAuthProperties</a>	Grants permission to modify the certificate-based authorization properties of a directory	Write	<a href="#">directory id*</a>		
<a href="#">ModifyClientProperties</a>	Grants permission to modify the properties of WorkSpaces clients	Write	<a href="#">directory id*</a>		
<a href="#">ModifyEndpointEncryptionMode</a>	Grants permission to configure the specified directory between Standard TLS and FIPS 140-2 validated mode	Write	<a href="#">directory id*</a>		
<a href="#">ModifySAMLProperties</a>	Grants permission to modify the SAML properties of a directory	Write	<a href="#">directory id*</a>		
<a href="#">ModifySelfServicePermissions</a>	Grants permission to modify the self-service WorkSpace management capabilities for your users	Permissions management	<a href="#">directory id*</a>		
<a href="#">ModifyStreamingProperties</a>	Grants permission to modify the streaming properties	Write	<a href="#">directory id*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ModifyWorkspaceAccessProperties</a>	Grants permission to specify which devices and operating systems users can use to access their WorkSpaces	Write	<a href="#">directory id*</a>		
<a href="#">ModifyWorkspaceCreationProperties</a>	Grants permission to modify the default properties used to create WorkSpaces	Write	<a href="#">directory id*</a>		
<a href="#">ModifyWorkspaceProperties</a>	Grants permission to modify Workspace properties, including the running mode and the AutoStop period	Write	<a href="#">workspace id*</a>		
<a href="#">ModifyWorkspaceState</a>	Grants permission to modify the state of WorkSpaces	Write	<a href="#">workspace id*</a>		
<a href="#">RebootWorkspaces</a>	Grants permission to reboot WorkSpaces	Write	<a href="#">workspace id*</a>		
<a href="#">RebuildWorkspaces</a>	Grants permission to rebuild WorkSpaces	Write	<a href="#">workspace id*</a>		
<a href="#">RegisterWorkspaceDirectory</a>	Grants permission to register directories for use with Amazon WorkSpaces	Write	<a href="#">directory id*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">RejectAccountLinkInvitation</a>	Grants permission to reject invitations from other AWS accounts to share the same configuration for WorkSpaces BYOL	Write			
<a href="#">RestoreWorkspace</a>	Grants permission to restore WorkSpaces	Write	<a href="#">workspace id*</a>		
<a href="#">RevokeRules</a>	Grants permission to remove rules from IP access control groups	Write	<a href="#">workspace ipgroup*</a>		workspace:UpdateRulesOfIpGroup
<a href="#">StartWorkspaces</a>	Grants permission to start AutoStop WorkSpaces	Write	<a href="#">workspace id*</a>		
<a href="#">StartWorkspacesPool</a>	Grants permission to start a WorkSpaces Pool	Write	<a href="#">workspace spoolid*</a>		
<a href="#">StopWorkspaces</a>	Grants permission to stop AutoStop WorkSpaces	Write	<a href="#">workspace id*</a>		
<a href="#">StopWorkspacesPool</a>	Grants permission to stop a WorkSpaces Pool	Write	<a href="#">workspace spoolid*</a>		
<a href="#">Stream</a>	Grants permission to federated users to sign in by using their existing credentials and stream their workspace	Write	<a href="#">directory id*</a>	<a href="#">workspace:userId</a>	
<a href="#">TerminateWorkspaces</a>	Grants permission to terminate WorkSpaces	Write	<a href="#">workspace id*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">TerminateWorkspacePool</a>	Grants permission to terminate a WorkSpaces Pool	Write	<a href="#">workspacepoolid*</a>		
<a href="#">TerminateWorkspacePoolSession</a>	Grants permission to terminate a WorkSpaces Pool session	Write			
<a href="#">UpdateConnectClientAddIn</a>	Grants permission to update an Amazon Connect client add-in. Use this action to update the name and endpoint URL of an Amazon Connect client add-in	Write	<a href="#">directoryid*</a>		
<a href="#">UpdateConnectionAliasesPermission</a>	Grants permission to share or unshare connection aliases with other accounts	Permissions management	<a href="#">connectionalias*</a>		
<a href="#">UpdateConsent</a> [permission only]	Grants permission to update the consent agreement to BYOL minimum requirements	Write			
<a href="#">UpdateRootClientCertificate</a> [permission only]	Grants permission to update a root client certificate	Write	<a href="#">certificateid*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateRulesOfIpGroup</a>	Grants permission to replace rules for IP access control groups	Write	<a href="#">workspaceipgroup*</a>		workspace:AuthorizeIpRules  workspace:RevokeIpRules
<a href="#">UpdateWorkspaceBundle</a>	Grants permission to update the WorkSpace images used in WorkSpace bundles	Write	<a href="#">workspacebundle*</a> <a href="#">workspaceimage*</a>		
<a href="#">UpdateWorkspaceImagePermission</a>	Grants permission to share or unshare WorkSpace images with other accounts by specifying whether other accounts have permission to copy the image	Permissions management	<a href="#">workspaceimage*</a>		
<a href="#">UpdateWorkspacesPool</a>	Grants permission to update the WorkSpaces pool	Write	<a href="#">workspacepoolid*</a>		

## Resource types defined by Amazon WorkSpaces

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">certificateid</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspacecertificate/\${CertificateId}	
<a href="#">directoryid</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:directory/\${DirectoryId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workspacebundle</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspacebundle/\${BundleId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workspaceid</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspace/\${WorkspaceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workspaceimage</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspaceimage/\${ImageId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workspaceipgroup</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspaceipgroup/\${GroupId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workspacepoolid</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspacespool/\${PoolId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">connectionalias</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:connectionalias/\${ConnectionAliasId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">workspaceapplication</a>	arn:\${Partition}:workspaces:\${Region}:\${Account}:workspaceapplication/\${WorkspaceApplicationId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon WorkSpaces

Amazon WorkSpaces defines the following condition keys that can be used in the `Condition` element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString
<a href="#">workspace:userld</a>	Filters access by the ID of the Workspaces user	String

## Actions, resources, and condition keys for Amazon WorkSpaces Application Manager

Amazon WorkSpaces Application Manager (service prefix: `wam`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

## Topics

- [Actions defined by Amazon WorkSpaces Application Manager](#)
- [Resource types defined by Amazon WorkSpaces Application Manager](#)
- [Condition keys for Amazon WorkSpaces Application Manager](#)

## Actions defined by Amazon WorkSpaces Application Manager

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

**Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">AuthenticatePackager</a> [permission only]	Allows the Amazon WAM packaging instance to access your application package catalog.	Write			

## Resource types defined by Amazon WorkSpaces Application Manager

Amazon WorkSpaces Application Manager does not support specifying a resource ARN in the Resource element of an IAM policy statement. To allow access to Amazon WorkSpaces Application Manager, specify "Resource": "\*" in your policy.

## Condition keys for Amazon WorkSpaces Application Manager

WAM has no service-specific context keys that can be used in the Condition element of policy statements. For the list of the global context keys that are available to all services, see [AWS global condition context keys](#).

## Actions, resources, and condition keys for AWS WorkSpaces Managed Instances

AWS WorkSpaces Managed Instances (service prefix: `workspaces-instances`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS WorkSpaces Managed Instances](#)
- [Resource types defined by AWS WorkSpaces Managed Instances](#)
- [Condition keys for AWS WorkSpaces Managed Instances](#)

### Actions defined by AWS WorkSpaces Managed Instances

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.


The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("`*`") to which the policy applies in the `Resource` element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action

with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the `Resource` element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's `Condition` element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate Volume</a>	Grants permission to associate a workspace managed volume to a workspace managed instance in your account	Write	<a href="#">Workspace Instance</a> <a href="#">d*</a>		ec2:AttachVolume  ec2:DescribeVolumes



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateVolume</a>	Grants permission to create a workspace managed volume in your account	Write			ec2:CreateVolume
<a href="#">CreateWorkspaceInstance</a>	Grants permission to create a workspace managed instance in your account	Write		<a href="#">aws:RequestTag/\${TagKey}</a>  <a href="#">aws:TagKeys</a>	ec2:DescribeInstances  ec2:RunInstances
<a href="#">DeleteVolume</a>	Grants permission to delete a workspace managed volume in your account	Write	<a href="#">VolumeId*</a>		ec2:DeleteVolume  ec2:DescribeVolumes
<a href="#">DeleteWorkspaceInstance</a>	Grants permission to delete a workspace managed instance in your account	Write	<a href="#">WorkspaceInstanceId*</a>		ec2:TerminateInstances
<a href="#">DisassociateVolume</a>	Grants permission to disassociate a workspace managed volume from a workspace managed instance in your account	Write	<a href="#">WorkspaceInstanceId*</a>		ec2:DescribeVolumes  ec2:DetachVolume
<a href="#">GetWorkspaceInstance</a>	Grants permission to get details for a specific workspace managed instance in your account	Read	<a href="#">WorkspaceInstanceId*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListInstanceTypes</a>	Grants permission to list all supported instance types	List			
<a href="#">ListRegions</a>	Grants permission to list all supported AWS regions	List			
<a href="#">ListTagsForResource</a>	Grants permission to list user tags for resources in your account	List	<a href="#">WorkspaceInstanceId*</a>		
<a href="#">ListWorkspaceInstances</a>	Grants permission to list workspace managed instances in your account	List			
<a href="#">TagResource</a>	Grants permission to add user tags to resources in your account	Tagging	<a href="#">WorkspaceInstanceId*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">UntagResource</a>	Grants permission to remove user tags from resources in your account	Tagging	<a href="#">WorkspaceInstanceId*</a>	<a href="#">aws:TagKeys</a>	

## Resource types defined by AWS WorkSpaces Managed Instances

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">Workspace InstanceId</a>	arn:\${Partition}:workspaces-instances:\${Region}:\${Account}:workspaceinstance/\${WorkspaceInstanceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">VolumeId</a>	arn:\${Partition}:ec2:\${Region}:\${Account}:volume/\${VolumeId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS WorkSpaces Managed Instances

AWS WorkSpaces Managed Instances defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access based on the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access based on the tags associated with the resource	String

Condition keys	Description	Type
<a href="#">aws:TagKeys</a>	Filters access based on the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon WorkSpaces Secure Browser

Amazon WorkSpaces Secure Browser (service prefix: `workspaces-web`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon WorkSpaces Secure Browser](#)
- [Resource types defined by Amazon WorkSpaces Secure Browser](#)
- [Condition keys for Amazon WorkSpaces Secure Browser](#)

## Actions defined by Amazon WorkSpaces Secure Browser

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">Associate BrowserSettings</a>	Grants permission to associate browser settings to web portals	Write	<a href="#">browserSettings*</a> <a href="#">portal*</a>		
<a href="#">Associate DataProtectionSettings</a>	Grants permission to associate data protection settings with web portals	Write	<a href="#">dataProtectionSettings*</a> <a href="#">portal*</a>		
<a href="#">Associate IpAccessSettings</a>	Grants permission to associate ip access settings with web portals	Write	<a href="#">ipAccessSettings*</a> <a href="#">portal*</a>		
<a href="#">Associate NetworkSettings</a>	Grants permission to associate network settings to web portals	Write	<a href="#">networkSettings*</a>		ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:CreateTags ec2:DeleteNetworkInterface ec2:DeleteNetworkI

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
					interfacePermission ec2:ModifyNetworkInterfaceAttribute
<a href="#">Associate SessionLogger</a>	Grants permission to associate session logger with web portals	Write	<a href="#">portal*</a> <a href="#">sessionLogger*</a>		
<a href="#">Associate TrustStore</a>	Grants permission to associate trust stores with web portals	Write	<a href="#">portal*</a> <a href="#">trustStore*</a>		
<a href="#">Associate UserAccessLoggingSettings</a>	Grants permission to associate user access logging settings with web portals	Write	<a href="#">portal*</a> <a href="#">userAccessLoggingSettings*</a>		kinesis:PutRecord kinesis:PutRecords
<a href="#">Associate UserSettings</a>	Grants permission to associate user settings with web portals	Write	<a href="#">portal*</a> <a href="#">userSettings*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateBrowserSettings</a>	Grants permission to create browser settings	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	kms:CreateGrant  kms:Decrypt  kms:DescribeKey  kms:GenerateDataKey  workspace-web:TagResource
<a href="#">CreateDataProtectionSettings</a>	Grants permission to create data protection settings	Write		<a href="#">aws:TagKeys</a>  <a href="#">aws:RequestTag/\${TagKey}</a>	workspace-web:TagResource
<a href="#">CreateIdentityProvider</a>	Grants permission to create identity providers	Write	<a href="#">identityProvider*</a>  <a href="#">portal*</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">CreateIpAccessSettings</a>	Grants permission to create ip access settings	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	workspace-s-web:TagResource
<a href="#">CreateNetworkSettings</a>	Grants permission to create network settings	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole workspace-s-web:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreatePortal</a>	Grants permission to create web portals	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	iam:CreateServiceLinkedRole kms:CreateGrant kms:Decrypt kms:DescribeKey kms:GenerateDataKey workspace-web:TagResource
<a href="#">CreateSessionLogger</a>	Grants permission to create session logger	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	s3:PutObject workspace-web:TagResource

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateTrustStore</a>	Grants permission to create trust stores	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	workspace-s-web:TagResource
<a href="#">CreateUserAccessLoggingSettings</a>	Grants permission to create user access logging settings	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	workspace-s-web:TagResource
<a href="#">CreateUserSettings</a>	Grants permission to create user settings	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a>	workspace-s-web:TagResource
<a href="#">DeleteBrowserSettings</a>	Grants permission to delete browser settings	Write	<a href="#">browserSettings*</a>		
<a href="#">DeleteDataProtectionSettings</a>	Grants permission to delete data protection settings	Write	<a href="#">dataProtectionSettings*</a>		
<a href="#">DeleteIdentityProvider</a>	Grants permission to delete identity providers	Write	<a href="#">identityProvider*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">portal*</a>		
<a href="#">DeleteIpAddressSettings</a>	Grants permission to delete ip access settings	Write	<a href="#">ipAccessSettings*</a>		
<a href="#">DeleteNetworkSettings</a>	Grants permission to delete network settings	Write	<a href="#">networkSettings*</a>		
<a href="#">DeletePortal</a>	Grants permission to delete web portals	Write	<a href="#">portal*</a>		
<a href="#">DeleteSessionLogger</a>	Grants permission to delete session logger	Write	<a href="#">sessionLogger*</a>		
<a href="#">DeleteTrustStore</a>	Grants permission to delete trust stores	Write	<a href="#">trustStore*</a>		
<a href="#">DeleteUserAccessLoggingSettings</a>	Grants permission to delete user access logging settings	Write	<a href="#">userAccessLoggingSettings*</a>		
<a href="#">DeleteUserSettings</a>	Grants permission to delete user settings	Write	<a href="#">userSettings*</a>		
<a href="#">DisassociateBrowserSettings</a>	Grants permission to disassociate browser settings from web portals	Write	<a href="#">portal*</a>		
<a href="#">DisassociateDataProtectionSettings</a>	Grants permission to disassociate data protection logging from web portals	Write	<a href="#">portal*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DisassociateHelpAccessSettings</a>	Grants permission to disassociate ip access logging from web portals	Write	<a href="#">portal*</a>		
<a href="#">DisassociateNetworkSettings</a>	Grants permission to disassociate network settings from web portals	Write	<a href="#">portal*</a>		
<a href="#">DisassociateSessionLogger</a>	Grants permission to disassociate session logger from web portals	Write	<a href="#">portal*</a>		
<a href="#">DisassociateTrustStore</a>	Grants permission to disassociate trust stores from web portals	Write	<a href="#">portal*</a>		
<a href="#">DisassociateUserAccessLoggingSettings</a>	Grants permission to disassociate user access logging settings from web portals	Write	<a href="#">portal*</a>		
<a href="#">DisassociateUserSettings</a>	Grants permission to disassociate user settings from web portals	Write	<a href="#">portal*</a>		
<a href="#">ExpireSession</a>	Grants permission to expire a session from a specific portal	Write	<a href="#">portal*</a>		
<a href="#">GetBrowserSettings</a>	Grants permission to get details on browser settings	Read	<a href="#">browserSettings*</a>		
<a href="#">GetDataProtectionSettings</a>	Grants permission to get details on data protection settings	Read	<a href="#">dataProtectionSettings*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetIdentityProvider</a>	Grants permission to get details on identity providers	Read	<a href="#">identityProvider*</a>		
<a href="#">GetIpAddressSettings</a>	Grants permission to get details on ip access settings	Read	<a href="#">ipAccessSettings*</a>		
<a href="#">GetNetworkSettings</a>	Grants permission to get details on network settings	Read	<a href="#">networkSettings*</a>		
<a href="#">GetPortal</a>	Grants permission to get details on web portals	Read	<a href="#">portal*</a>		
<a href="#">GetPortalServiceProviderMetadata</a>	Grants permission to get service provider metadata information for web portals	Read	<a href="#">portal*</a>		
<a href="#">GetSession</a>	Grants permission to get information about a particular session for a portal	Read	<a href="#">portal*</a>		
<a href="#">GetSessionLogger</a>	Grants permission to get details on session logger	Read	<a href="#">sessionLogger*</a>		
<a href="#">GetTrustStore</a>	Grants permission to get details on trust stores	Read	<a href="#">trustStore*</a>		
<a href="#">GetTrustStoreCertificate</a>	Grants permission to get certificates from trust stores	Read	<a href="#">trustStore*</a>		
<a href="#">GetUserAccessLoggingSettings</a>	Grants permission to get details on user access logging settings	Read	<a href="#">userAccessLoggingSettings*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetUserSettings</a>	Grants permission to get details on user settings	Read	<a href="#">userSettings*</a>		
<a href="#">ListBrowserSettings</a>	Grants permission to list browser settings	Read			
<a href="#">ListDataProtectionSettings</a>	Grants permission to list data protection settings	Read			
<a href="#">ListIdentityProviders</a>	Grants permission to list identity providers	Read	<a href="#">identityProvider*</a>		
<a href="#">ListIpAddressSettings</a>	Grants permission to list ip access settings	Read			
<a href="#">ListNetworkSettings</a>	Grants permission to list network settings	Read			
<a href="#">ListPortals</a>	Grants permission to list web portals	Read			
<a href="#">ListSessionLoggers</a>	Grants permission to list session loggers	Read			
<a href="#">ListSessions</a>	Grants permission to list sessions for a Portal using optional filters	Read	<a href="#">portal*</a>		
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListTrustStoreCertificates</a>	Grants permission to list certificates in a trust store	Read			
<a href="#">ListTrustStores</a>	Grants permission to list trust stores	Read			
<a href="#">ListUserAccessLoggingSettings</a>	Grants permission to list user access logging settings	Read			
<a href="#">ListUserSettings</a>	Grants permission to list user settings	Read			
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">browserSettings</a> <a href="#">dataProtectionSettings</a> <a href="#">identityProvider</a> <a href="#">ipAccessSettings</a> <a href="#">networkSettings</a> <a href="#">portal</a> <a href="#">sessionLogger</a>		



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">trustStore</a>		
			<a href="#">userAccessLoggingSettings</a>		
			<a href="#">userSettings</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/\${TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">browserSettings</a>		
			<a href="#">dataProtectionSettings</a>		
			<a href="#">identityProvider</a>		
			<a href="#">ipAccessSettings</a>		
			<a href="#">networkSettings</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">portal</a>		
			<a href="#">sessionLogger</a>		
			<a href="#">trustStore</a>		
			<a href="#">userAccessLoggingSettings</a>		
			<a href="#">userSettings</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateBrowserSettings</a>	Grants permission to update browser settings	Write	<a href="#">browserSettings*</a>		
<a href="#">UpdateDataProtectionSettings</a>	Grants permission to update data protection settings	Write	<a href="#">dataProtectionSettings*</a>		
<a href="#">UpdateIdentityProvider</a>	Grants permission to update identity provider	Write	<a href="#">identityProvider*</a>		
			<a href="#">portal*</a>		
<a href="#">UpdateIpAccessSettings</a>	Grants permission to update ip access settings	Write	<a href="#">ipAccessSettings*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateNetworkSettings</a>	Grants permission to update network settings	Write	<a href="#">networkSettings*</a>		ec2:CreateNetworkInterface ec2:CreateNetworkInterfacePermission ec2:CreateTags ec2:DeleteNetworkInterface ec2:DeleteNetworkInterfacePermission ec2:ModifyNetworkInterfaceAttribute
<a href="#">UpdatePortal</a>	Grants permission to update web portals	Write	<a href="#">portal*</a>		
<a href="#">UpdateSessionLogger</a>	Grants permission to update session logger	Write	<a href="#">sessionLogger*</a>		
<a href="#">UpdateTrustStore</a>	Grants permission to update trust stores	Write	<a href="#">trustStore*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateUserAccessLoggingSettings</a>	Grants permission to update user access logging settings	Write	<a href="#">userAccessLoggingSettings*</a>		kinesis:PutRecord  kinesis:PutRecords
<a href="#">UpdateUserSettings</a>	Grants permission to update user settings	Write	<a href="#">userSettings*</a>		

## Resource types defined by Amazon WorkSpaces Secure Browser

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">browserSettings</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:browserSettings/\${BrowserSettingsId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">identityProvider</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:identityProvider/\${PortalId}/\${IdentityProviderId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">networkSettings</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:networkSettings/\${NetworkSettingsId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

Resource types	ARN	Condition keys
<a href="#">portal</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:portal/\${PortalId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">trustStore</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:trustStore/\${TrustStoreId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">userSettings</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:userSettings/\${UserSettingsId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">userAccessLoggingSettings</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:userAccessLoggingSettings/\${UserAccessLoggingSettingsId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">ipAccessSettings</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:ipAccessSettings/\${IpAccessSettingsId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">dataProtectionSettings</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:dataProtectionSettings/\${DataProtectionSettingsId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sessionLogger</a>	arn:\${Partition}:workspaces-web:\${Region}:\${Account}:sessionLogger/\${SessionLoggerId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon WorkSpaces Secure Browser

Amazon WorkSpaces Secure Browser defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for Amazon WorkSpaces Thin Client

Amazon WorkSpaces Thin Client (service prefix: `thinclient`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by Amazon WorkSpaces Thin Client](#)
- [Resource types defined by Amazon WorkSpaces Thin Client](#)
- [Condition keys for Amazon WorkSpaces Thin Client](#)

## Actions defined by Amazon WorkSpaces Thin Client

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy,

you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

#### Note

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateEnvironment</a>	Grants permission to create environments	Write		<a href="#">aws:TagKeys</a> <a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	appstream:DescribeStacks iam:CreateServiceLinkedRole workspace-s-web:GetPortal workspace-s-web:GetUserSettings workspace-s:DescribeWorkspacesDirectories
<a href="#">DeleteDevice</a>	Grants permission to delete devices	Write	<a href="#">device*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">DeleteEnvironment</a>	Grants permission to delete environments	Write	<a href="#">environment*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeregisterDevice</a>	Grants permission to deregister devices	Write	<a href="#">device*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDevice</a>	Grants permission to get devices	Read	<a href="#">device*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetDeviceDetails</a> [permission only]	Grants permission to get details of devices	Read	<a href="#">device*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetEnvironment</a>	Grants permission to get details of environments	Read	<a href="#">environment*</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetSoftwareSet</a>	Grants permission to get details of software sets	Read	<a href="#">softwareset*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListDeviceSessions</a> [permission only]	Grants permission to list device sessions	List	<a href="#">device*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">ListDevices</a>	Grants permission to list devices	List			
<a href="#">ListEnvironments</a>	Grants permission to list environments	List			
<a href="#">ListSoftwareSets</a>	Grants permission to list software sets	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for a resource	List	<a href="#">device</a>		
			<a href="#">environment</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">softwares</a> <a href="#">et</a>		
<a href="#">TagResource</a>	Grants permission to add one or more tags to a resource	Tagging	<a href="#">device</a>	<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
			<a href="#">environme</a> <a href="#">nt</a>		
			<a href="#">softwares</a> <a href="#">et</a>		
				<a href="#">aws:TagKeys</a>	
				<a href="#">aws:RequestTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
				<a href="#">aws:ResourceTag/</a> <a href="#">\${</a> <a href="#">TagKey}</a>	
<a href="#">UntagResource</a>	Grants permission to remove one or more tags from a resource	Tagging	<a href="#">device</a>		
			<a href="#">environme</a> <a href="#">nt</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">softwares</a> <a href="#">et</a>		
<a href="#">UpdateDevice</a>	Grants permission to update devices	Write	<a href="#">device*</a>	<a href="#">aws:TagKeys</a> <a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">UpdateEnvironment</a>	Grants permission to update environments	Write	<a href="#">environment*</a>		appstream:DescribeStacks  workspace-s-web:GetPortal  workspace-s-web:GetUserSettings  workspace-s:DescribeWorkspacesDirectories
<a href="#">UpdateSoftwareSet</a>	Grants permission to update software set	Write	<a href="#">softwareset*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

## Resource types defined by Amazon WorkSpaces Thin Client

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">environment</a>	arn:\${Partition}:thinclient:\${Region}:\${Account}:environment/\${EnvironmentId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">device</a>	arn:\${Partition}:thinclient:\${Region}:\${Account}:device/\${DeviceId}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">softwareset</a>	arn:\${Partition}:thinclient:\${Region}:\${Account}:softwareset/\${SoftwareSetId}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for Amazon WorkSpaces Thin Client

Amazon WorkSpaces Thin Client defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String

Condition keys	Description	Type
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

## Actions, resources, and condition keys for AWS X-Ray

AWS X-Ray (service prefix: `xray`) provides the following service-specific resources, actions, and condition context keys for use in IAM permission policies.

References:

- Learn how to [configure this service](#).
- View a list of the [API operations available for this service](#).
- Learn how to secure this service and its resources by [using IAM](#) permission policies.

### Topics

- [Actions defined by AWS X-Ray](#)
- [Resource types defined by AWS X-Ray](#)
- [Condition keys for AWS X-Ray](#)

## Actions defined by AWS X-Ray

You can specify the following actions in the `Action` element of an IAM policy statement. Use policies to grant permissions to perform an operation in AWS. When you use an action in a policy, you usually allow or deny access to the API operation or CLI command with the same name. However, in some cases, a single action controls access to more than one operation. Alternatively, some operations require several different actions.

The **Access level** column of the Actions table describes how the action is classified (List, Read, Permissions management, or Tagging). This classification can help you understand the level of

access that an action grants when you use it in a policy. For more information about access levels, see [Access levels in policy summaries](#).

The **Resource types** column of the Actions table indicates whether each action supports resource-level permissions. If there is no value for this column, you must specify all resources ("\*") to which the policy applies in the Resource element of your policy statement. If the column includes a resource type, then you can specify an ARN of that type in a statement with that action. If the action has one or more required resources, the caller must have permission to use the action with those resources. Required resources are indicated in the table with an asterisk (\*). If you limit resource access with the Resource element in an IAM policy, you must include an ARN or pattern for each required resource type. Some actions support multiple resource types. If the resource type is optional (not indicated as required), then you can choose to use one of the optional resource types.

The **Condition keys** column of the Actions table includes keys that you can specify in a policy statement's Condition element. For more information on the condition keys that are associated with resources for the service, see the **Condition keys** column of the Resource types table.

The **Dependent actions** column of the Actions table shows additional permissions that may be required to successfully call an action. These permissions may be needed in addition to the permission for the action itself. When an action specifies dependent actions, those dependencies may apply to additional resources defined for that action, not only the first resource listed in the table.

 **Note**

Resource condition keys are listed in the [Resource types](#) table. You can find a link to the resource type that applies to an action in the **Resource types (\*required)** column of the Actions table. The resource type in the Resource types table includes the **Condition keys** column, which are the resource condition keys that apply to an action in the Actions table.

For details about the columns in the following table, see [Actions table](#).



Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">BatchGetTraceSummaryById</a> [permission only]	Grants permission to retrieve metadata for a list of traces specified by ID	Read			
<a href="#">BatchGetTraces</a>	Grants permission to retrieve a list of traces specified by ID. Each trace is a collection of segment documents that originates from a single request. Use GetTraceSummaries to get a list of trace IDs	List			
<a href="#">CancelTraceRetrieval</a>	Grants permission to cancel an ongoing trace retrieval job initiated by StartTraceRetrieval using the provided RetrievalToken. A successful cancellation will return an HTTP 200 response	Read			
<a href="#">CreateGroup</a>	Grants permission to create a group resource with a name and a filter expression	Write	<a href="#">group*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">CreateSamplingRule</a>	Grants permission to create a rule to control sampling behavior for instrumented applications	Write	<a href="#">sampling-rule*</a>	<a href="#">aws:RequestTag/\${TagKey}</a> <a href="#">aws:TagKeys</a>	
<a href="#">DeleteGroup</a>	Grants permission to delete a group resource	Write	<a href="#">group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">DeleteResourcePolicy</a>	Grants permission to delete resource policies	Write		<a href="#">xray:ResourcePolicyName</a>	
<a href="#">DeleteSamplingRule</a>	Grants permission to delete a sampling rule	Write	<a href="#">sampling-rule*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetDistinctTraceGraphs</a> [permission only]	Grants permission to retrieve distinct service graphs for one or more specific trace IDs	Read			
<a href="#">GetEncryptionConfig</a>	Grants permission to retrieve the current encryption configuration for X-Ray data	Read			
<a href="#">GetGroup</a>	Grants permission to retrieve group resource details	Read	<a href="#">group*</a>	<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">GetGroups</a>	Grants permission to retrieve all active group details	Read			
<a href="#">GetIndexingRules</a>	Grants permission to retrieve all indexing rules. Indexing rules are used to determine the server-side sampling rate for spans ingested through the CloudWatchLogs destination and indexed by X-Ray	Read			
<a href="#">GetInsight</a>	Grants permission to retrieve the details of a specific insight	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetInsightEvents</a>	Grants permission to retrieve the events of a specific insight	Read			
<a href="#">GetInsightImpactGraph</a>	Grants permission to retrieve the part of the service graph which is impacted for a specific insight	Read			
<a href="#">GetInsightSummaries</a>	Grants permission to retrieve the summary of all insights for a group and time range with optional filters	Read			
<a href="#">GetRetrievedTracesGraph</a>	Grants permission to retrieve a service graph for traces based on the specified RetrievalToken from the Transaction Search CloudWatch log group	Read			
<a href="#">GetSamplingRules</a>	Grants permission to retrieve all sampling rules	Read			
<a href="#">GetSamplingStatisticSummaries</a>	Grants permission to retrieve information about recent sampling results for all sampling rules	Read			
<a href="#">GetSamplingTargets</a>	Grants permission to request a sampling quota for rules that the service is using to sample requests	Read			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">GetServiceGraph</a>	Grants permission to retrieve a document that describes services that process incoming requests, and downstream services that they call as a result	Read			
<a href="#">GetTimeSeriesServiceStatistics</a>	Grants permission to retrieve an aggregation of service statistics defined by a specific time range bucketed into time intervals	Read			
<a href="#">GetTraceGraph</a>	Grants permission to retrieve a service graph for one or more specific trace IDs	Read			
<a href="#">GetTraceSegmentDestination</a>	Grants permission to retrieve the current destination of data sent to PutTraceSegments and OpenTelemetry API	Read			
<a href="#">GetTraceSummaries</a>	Grants permission to retrieve IDs and metadata for traces available for a specified time frame using an optional filter. To get the full traces, pass the trace IDs to BatchGetTraces	Read			
<a href="#">Link</a> [permission only]	Grants permission to share X-Ray resources with a monitoring account	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">ListResourcePolicies</a>	Grants permission to list resource policies	List			
<a href="#">ListRetrievedTraces</a>	Grants permission to retrieve a list of traces for a given RetrievalToken from the Transaction Search CloudWatch log group	List			
<a href="#">ListTagsForResource</a>	Grants permission to list tags for an X-Ray resource	List	<a href="#">group</a> <a href="#">sampling-rule</a>		
<a href="#">PutEncryptionConfig</a>	Grants permission to update the encryption configuration for X-Ray data	Permissions management			
<a href="#">PutResourcePolicy</a>	Grants permission to create or update resource policies	Write		<a href="#">xray:ResourcePolicyName</a>	
<a href="#">PutSpans</a>	Grants permission to upload OpenTelemetry spans to AWS X-Ray	Write		<a href="#">logs:LogGeneratingResourceARNs</a>	
<a href="#">PutSpansForIndexing</a> [permission only]	Grants permission to upload spans to AWS X-Ray to be indexed	Write			

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
<a href="#">PutTelemetryRecords</a>	Grants permission to send AWS X-Ray daemon telemetry to the service	Write			
<a href="#">PutTraceSegments</a>	Grants permission to upload segment documents to AWS X-Ray. The X-Ray SDK generates segment documents and sends them to the X-Ray daemon, which uploads them in batches	Write		<a href="#">logs:LogGeneratingResourceArns</a>	
<a href="#">StartTraceRetrieval</a>	Grants permission to initiate a trace retrieval process using the specified time range and for the given trace IDs on the Transaction Search CloudWatch log group	Read			
<a href="#">TagResource</a>	Grants permission to add tags to an X-Ray resource	Tagging	<a href="#">group</a>		
			<a href="#">sampling-rule</a>		
				<a href="#">aws:TagKeys</a>	<a href="#">aws:RequestTag/\${TagKey}</a>
<a href="#">UntagResource</a>	Grants permission to remove tags from an X-Ray resource	Tagging	<a href="#">group</a>		

Actions	Description	Access level	Resource types (*required)	Condition keys	Dependent actions
			<a href="#">sampling-rule</a>		
				<a href="#">aws:TagKeys</a>	
<a href="#">UpdateGroup</a>	Grants permission to update a group resource	Write	<a href="#">group*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateIndexingRule</a>	Grants permission to modify an indexing rule's configuration	Write			
<a href="#">UpdateSamplingRule</a>	Grants permission to modify a sampling rule's configuration	Write	<a href="#">sampling-rule*</a>		
				<a href="#">aws:ResourceTag/\${TagKey}</a>	
<a href="#">UpdateTraceSegmentDestination</a>	Grants permission to modify the destination of data sent to PutTraceSegments and OpenTelemetry API	Write		<a href="#">xray:TraceSegmentDestination</a>	



## Resource types defined by AWS X-Ray

The following resource types are defined by this service and can be used in the Resource element of IAM permission policy statements. Each action in the [Actions table](#) identifies the resource types that can be specified with that action. A resource type can also define which condition keys you can include in a policy. These keys are displayed in the last column of the Resource types table. For details about the columns in the following table, see [Resource types table](#).

Resource types	ARN	Condition keys
<a href="#">group</a>	arn:\${Partition}:xray:\${Region}:\${Account}:group/\${GroupName}/\${Id}	<a href="#">aws:ResourceTag/\${TagKey}</a>
<a href="#">sampling-rule</a>	arn:\${Partition}:xray:\${Region}:\${Account}:sampling-rule/\${SamplingRuleName}	<a href="#">aws:ResourceTag/\${TagKey}</a>

## Condition keys for AWS X-Ray

AWS X-Ray defines the following condition keys that can be used in the Condition element of an IAM policy. You can use these keys to further refine the conditions under which the policy statement applies. For details about the columns in the following table, see [Condition keys table](#).

To view the global condition keys that are available to all services, see [AWS global condition context keys](#).

Condition keys	Description	Type
<a href="#">aws:RequestTag/\${TagKey}</a>	Filters access by the tags that are passed in the request	String
<a href="#">aws:ResourceTag/\${TagKey}</a>	Filters access by the tags associated with the resource	String
<a href="#">aws:TagKeys</a>	Filters access by the tag keys that are passed in the request	ArrayOfString

Condition keys	Description	Type
<a href="#">logs:LogGeneratingResourceArns</a>	Filters access by LogGeneratingResourceArn in the request	ArrayOfARN
<a href="#">xray:ResourcePolicyName</a>	Filters access by PolicyName in the request	String
<a href="#">xray:TraceSegmentDestination</a>	Filters access by TraceSegmentDestination type in the request	String

## Related resources

For related information found in the *IAM User Guide*, see the following resources:

- [Tutorial: Create and attach your first customer managed policy](#)
- [AWS services that work with IAM](#)
- [Policy evaluation logic](#)

# Simplified AWS service information for programmatic access

AWS provides service reference information in JSON format to streamline the automation of policy management workflows. With the service reference information, you can access available operations, actions, resources, and condition keys across AWS services from machine-readable files. Service reference information includes metadata beyond authorization details, including IAM action last accessed information and IAM Access Analyzer policy generation data.

Security administrators can establish guardrails and developers can ensure appropriate access to applications by identifying the available actions, resources, and condition keys for each AWS service. AWS provides service reference information for AWS services to allow you to incorporate the metadata into your policy management workflows.

- For an inventory of actions, resources, and condition keys for use in IAM policies, see the [Service Authorization Reference](#) page for the AWS service. Actions, resources, and condition keys for services that share a service prefix may be split across multiple pages in the Service Authorization Reference.
- For a list of AWS services and actions for which IAM action last accessed information is displayed, see [IAM action last accessed information services and actions](#) in the IAM User Guide.
- For a list of AWS services and actions for which IAM Access Analyzer generates policies with action-level information, see [IAM Access Analyzer policy generation services](#) in the IAM User Guide.

The content presented in the Service Authorization Reference may be presented differently or contain different metadata. For more information, see [Additional field definitions](#).

The service reference information also offers metadata on operations, including information on authorized actions and the method names in SDKs.

Additional context of the value of condition keys may be available to assist in scoping permissions. For example, the value of `iam:PassedToService` may appear when the action `iam:PassRole` is authorized by an operation.

This operation to action mapping is not supported for all services. Services that don't yet support this mapping will omit the `AuthorizedAction` property. Additionally, authorized action information

for operations does not include permissions that might be required for operations called on your behalf with [Forward Access Sessions](#).

### Note

Changes to the service reference information may take up to 24 hours to be reflected in the list of metadata for the service.

## Accessing AWS service reference information

1. Navigate to the service reference information to access the list of AWS services for which reference information is available.

There are two main entry points:

<http://servicereference.us-east-1.amazonaws.com/> displays a list of AWS services for which reference information is available.

The following example shows a partial list of services and URLs for their respective reference information:

```
[
  {
    "service": "s3",
    "url": "https://servicereference.us-east-1.amazonaws.com/v1/s3/s3.json"
  },
  {
    "service": "dynamodb",
    "url": "https://servicereference.us-east-1.amazonaws.com/v1/dynamodb/
dynamodb.json"
  },
  ...
]
```

<https://servicereference.us-east-1.amazonaws.com/v1/mapping.json> displays a mapping from SDK services to the location in the service reference that information can be found under.

The following example shows a partial list of mappings:

```
{
```

```
"SDK" : {
  "Python" : {
    "Boto3" : {
      "accessanalyzer" : {
        "service" : "access-analyzer",
        "url" : "https://servicereference.us-east-1.amazonaws.com/v1/access-
analyzer/access-analyzer.json"
      },
      "account" : {
        "service" : "account",
        "url" : "https://servicereference.us-east-1.amazonaws.com/v1/account/
account.json"
      },
      "amp" : {
        "service" : "aps",
        "url" : "https://servicereference.us-east-1.amazonaws.com/v1/aps/
aps.json"
      },
      ...
    }
  }
}
```

2. Choose a service and navigate to the service information page in the `url` field for the service to view a list of actions, resources, and condition keys for the service.

The following example shows a partial list of service reference information for Amazon S3:

```
{
  "Name": "s3",
  "Actions": [
    {
      "Name": "GetObject",
      "ActionConditionKeys": [
        "s3:AccessGrantsInstanceArn",
        "s3:AccessPointNetworkOrigin",
        "s3:DataAccessPointAccount",
        "s3:DataAccessPointArn",
        "s3:ExistingObjectTag/key",
        "s3:ResourceAccount",
        "s3:TlsVersion",
        "s3:authType",

```

```
        "s3:if-match",
        "s3:if-none-match",
        "s3:signatureAge",
        "s3:signatureversion",
        "s3:x-amz-content-sha256"
    ],
    "Annotations" : {
    "Properties" : {
        "IsList" : false,
        "IsPermissionManagement" : false,
        "IsTaggingOnly" : false,
        "IsWrite" : false
    }
    },
    "Resources": [
        {
            "Name": "object"
        }
    ],
    "SupportedBy" : {
        "IAM Access Analyzer Policy Generation" : false,
        "IAM Action Last Accessed" : false
    }
    },
    {
    "Name": "ListBucket",
    "ActionConditionKeys": [
        "s3:AccessGrantsInstanceArn",
        "s3:AccessPointNetworkOrigin",
        "s3:DataAccessPointAccount",
        "s3:DataAccessPointArn",
        "s3:ResourceAccount",
        "s3:TlsVersion",
        "s3:authType",
        "s3:delimiter",
        "s3:max-keys",
        "s3:prefix",
        "s3:signatureAge",
        "s3:signatureversion",
        "s3:x-amz-content-sha256"
    ],
    "Annotations" : {
        "Properties" : {
            "IsList" : true,
```

```
        "IsPermissionManagement" : false,
        "IsTaggingOnly" : false,
        "IsWrite" : false
    }
},
"Resources": [
    {
        "Name": "bucket"
    }
],
"SupportedBy" : {
    "IAM Access Analyzer Policy Generation" : false,
    "IAM Action Last Accessed" : false
}
},
...
],
"ConditionKeys": [
    {
        "Name": "s3:TlsVersion",
        "Types": [
            "Numeric"
        ]
    },
    {
        "Name": "s3:authType",
        "Types": [
            "String"
        ]
    },
    ...
],
"Operations": [
    {
        "Name" : "GetObject",
        "AuthorizedActions" : [
            {
                "Name" : "GetObject",
                "Service" : "s3"
            }, {
                "Name" : "GetObject",
                "Service" : "s3-object-lambda"
            }, {
                "Name" : "GetObjectLegalHold",
```

```

        "Service" : "s3"
      }, {
        "Name" : "GetObjectRetention",
        "Service" : "s3"
      }, {
        "Name" : "GetObjectTagging",
        "Service" : "s3"
      }, {
        "Name" : "GetObjectVersion",
        "Service" : "s3"
      }
    ],
    "SDK" : [
      {
        "Name" : "s3",
        "Method" : "get_object",
        "Package" : "Boto3"
      }
    ]
  },
  ...
],
"Resources": [
  {
    "Name": "accesspoint",
    "ARNFormats": [
      "arn:${Partition}:s3:${Region}:${Account}:accesspoint/
${AccessPointName}"
    ]
  },
  {
    "Name": "bucket",
    "ARNFormats": [
      "arn:${Partition}:s3:::${BucketName}"
    ]
  }
  ...
],
"Version": "v1.4"
}

```

3. Download the JSON file from the service URL to use in your policy authoring workflows.



# Glossary

- Operation - An API that can be called, usually through an SDK
- Action - Permission that is authorized when performing an operation

## Additional field definitions

**Action properties** provide additional metadata about service actions to help categorize them based on their permission scope. These properties are found under the `Annotations` field for each action. The metadata consists of four boolean values:

- `IsList` – Provides permissions to discover and list resources, including basic metadata, without accessing resource contents.

**Example** – This property is `true` for the Amazon S3 `ListBucket` action, allowing users to view bucket listings without accessing the objects themselves.

- `IsPermissionManagement` – Provides permissions to modify IAM permissions or access credentials.

**Example** – This property is `true` for most IAM and AWS Organizations actions, as well as Amazon S3 actions like `PutBucketPolicy` and `DeleteBucketPolicy`.

- `IsTaggingOnly` – Provides permissions only for modifying tags.

**Example** – This property is `true` for IAM actions `TagRole` and `UntagRole`, while this property is `false` for `CreateRole` since it provides broader permissions beyond tagging.

- `IsWrite` – Provides permissions to modify resources, which may include tag modifications.

**Example** – This property is `true` for Amazon S3 actions `CreateBucket`, `DeleteBucket`, and `PutObject` since they allow resource modification.

### Note

These properties are not mutually exclusive. An action may have multiple properties set to `true`.

It's also possible for all properties to be `false`, as seen with Amazon S3's `GetObject` action. This indicates the action only grants read permissions on an object.

These properties can be used to generate insights for services. The following example shows which permissions with the s3 prefix allow mutating resources:

```
> curl https://servicereference.us-east-1.amazonaws.com/v1/s3/s3.json | \
  jq '.Actions[] | select(.Annotations.Properties.IsWrite == true) | .Name'

"AssociateAccessGrantsIdentityCenter"
"BypassGovernanceRetention"
"CreateAccessGrant"
"CreateAccessGrantsInstance"
"CreateAccessGrantsLocation"
...
```

The following example shows which action condition keys with the lambda prefix you can use to limit access to permission management actions:

```
> curl https://servicereference.us-east-1.amazonaws.com/v1/lambda/lambda.json | \
  jq '.Actions[] | select(.Annotations.Properties.IsPermissionManagement == true) |
  {Name: .Name, ActionConditionKeys: (.ActionConditionKeys // [])}'

{
  "Name": "AddLayerVersionPermission",
  "ActionConditionKeys": []
}
{
  "Name": "AddPermission",
  "ActionConditionKeys": [
    "lambda:FunctionUrlAuthType",
    "lambda:Principal"
  ]
}
{
  "Name": "DisableReplication",
  "ActionConditionKeys": []
}
{
  "Name": "EnableReplication",
  "ActionConditionKeys": []
}
{
  "Name": "RemoveLayerVersionPermission",
  "ActionConditionKeys": []
}
```

```
{
  "Name": "RemovePermission",
  "ActionConditionKeys": [
    "lambda:FunctionUrlAuthType",
    "lambda:Principal"
  ]
}
```