



API Reference

AWS Network Security Manager



API Version 2025-10-30

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AWS Network Security Manager: API Reference

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Welcome

AWS Network Security Manager helps you centrally configure and deploy network security protections across your organization. Supported protections include AWS WAF and AWS Shield Advanced. This centralized approach reduces the overhead of managing protections individually across accounts and ensures consistent security at scale.

You define reusable *rules* and *templates*, then combine them into *policies*. Next, you select the accounts and resources to protect with *scopes* and roll the protections out with *deployments*. For example, you can define a set of AWS WAF rules and group them into a policy. Then deploy that policy across all accounts in your organization with a single deployment.

This API reference describes the operations and data types for AWS Network Security Manager.

For conceptual information, tutorials, and guidance on writing rule configurations, see the [AWS Network Security Manager Developer Guide](#). For the default quotas that apply to your account, see [Quotas](#). For the service endpoints available in each Region, see [AWS Network Security Manager endpoints and quotas](#) in the *AWS General Reference*.

This document was last published on September 23, 2026.

Actions

The following actions are supported:

- [CreateDeployment](#)
- [CreateDeploymentSnapshot](#)
- [CreatePolicy](#)
- [CreatePolicySnapshot](#)
- [CreateRule](#)
- [CreateRuleSnapshot](#)
- [CreateScope](#)
- [CreateScopeSnapshot](#)
- [CreateTemplate](#)
- [CreateTemplateSnapshot](#)
- [DeleteAdminAccount](#)
- [DeleteDeployment](#)
- [DeletePolicy](#)
- [DeleteRule](#)
- [DeleteScope](#)
- [DeleteTemplate](#)
- [GenerateRuleConfiguration](#)
- [GetAdminAccount](#)
- [GetDeployment](#)
- [GetPolicy](#)
- [GetRule](#)
- [GetScope](#)
- [GetTemplate](#)
- [ListAdminAccounts](#)
- [ListAggregateResourceSynchronizationStatuses](#)
- [ListDeployments](#)
- [ListDeploymentSnapshots](#)

- [ListPolicies](#)
- [ListPolicySnapshots](#)
- [ListResourceAssociations](#)
- [ListResourceSynchronizationStatuses](#)
- [ListRules](#)
- [ListRuleSnapshots](#)
- [ListScopes](#)
- [ListScopeSnapshots](#)
- [ListTagsForResource](#)
- [ListTemplates](#)
- [ListTemplateSnapshots](#)
- [PutAdminAccount](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateDeployment](#)
- [UpdatePolicy](#)
- [UpdateRule](#)
- [UpdateScope](#)
- [UpdateTemplate](#)

CreateDeployment

Creates a deployment. A deployment applies one or more policies to the accounts and resources selected by a scope. Use `isPublished` to create the deployment in published (ACTIVE) or draft (DRAFT) state. The response includes coverage information and any warnings about the deployment.

Request Syntax

```
POST /deployments HTTP/1.1
Content-type: application/json

{
  "associatedPolicyList": [
    {
      "policyIdentifier": "string"
    }
  ],
  "associatedScopeList": [
    {
      "scopeIdentifier": "string"
    }
  ],
  "clientToken": "string",
  "deploymentConfiguration": {
    "enableCrossAccountVisibility": boolean
  },
  "deploymentDescription": "string",
  "deploymentName": "string",
  "isPublished": boolean,
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associatedPolicyList

The policies associated with the deployment.

Type: Array of [PolicyReference](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of [ScopeReference](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

deploymentConfiguration

The configuration settings for the deployment.

Type: [DeploymentConfiguration](#) object

Required: Yes

deploymentDescription

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9_./=\-@]*`

Required: No

deploymentName

The name of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_./=\-@]*`

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT). Default: `true`.

Type: Boolean

Required: No

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\p{L}\p{Z}\p{N}_./=\-@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json
```

```

{
  "associatedPolicyList": [
    {
      "policyArn": "string"
    }
  ],
  "associatedScopeList": [
    {
      "scopeArn": "string"
    }
  ],
  "deploymentArn": "string",
  "deploymentConfiguration": {
    "enableCrossAccountVisibility": boolean
  },
  "deploymentCoverage": [
    {
      "firewallType": "string",
      "inScopeResourceTypes": [ "string" ],
      "policyArns": [ "string" ]
    }
  ],
  "deploymentDescription": "string",
  "deploymentId": "string",
  "deploymentName": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "status": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string",
  "warnings": [
    {
      "code": "string",
      "message": "string",
      "policyArn": "string"
    }
  ]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

[associatedPolicyList](#)

The policies associated with the deployment.

Type: Array of [AssociatedPolicy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

[associatedScopeList](#)

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of [AssociatedScope](#) objects

Array Members: Fixed number of 1 item.

[deploymentArn](#)

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

[deploymentConfiguration](#)

The configuration settings for the deployment.

Type: [DeploymentConfiguration](#) object

[deploymentCoverage](#)

The coverage information for the deployment. For each firewall type, it shows which policies have that firewall type and which in-scope resource types the firewall type protects.

Type: Array of [DeploymentCoverageEntry](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

[deploymentDescription](#)

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

deploymentId

The service-generated id of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

warnings

Warnings about potential issues, such as a policy that has no applicable resources in the deployment's scope.

Type: Array of [DeploymentWarningEntry](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateDeploymentSnapshot

Creates a snapshot of the current published version of the specified deployment.

Request Syntax

```
POST /deployments/deploymentIdentifier/snapshots HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\p{L}\p{Z}\p{N}_./=+\-@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 201

Content-type: application/json

```
{
  "associatedPolicyList": [
    {
      "policyArn": "string"
    }
  ],
  "associatedScopeList": [
    {
      "scopeArn": "string"
    }
  ],
  "deploymentArn": "string",
  "deploymentConfiguration": {
    "enableCrossAccountVisibility": boolean
  },
  "deploymentDescription": "string",
  "deploymentId": "string",
  "deploymentName": "string",
```

```
"hasPublishedVersion": boolean,  
"isSnapshot": boolean,  
"status": "string",  
"updatedAt": "string",  
"updateToken": "string",  
"version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

[associatedPolicyList](#)

The policies associated with the deployment.

Type: Array of [AssociatedPolicy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

[associatedScopeList](#)

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of [AssociatedScope](#) objects

Array Members: Fixed number of 1 item.

[deploymentArn](#)

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)
{2}:(.+)`

[deploymentConfiguration](#)

The configuration settings for the deployment.

Type: [DeploymentConfiguration](#) object

deploymentDescription

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: [a-zA-Z0-9 _ . : / = + \ - @] *

deploymentId

The service-generated id of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-z0-9]{1,64}

deploymentName

The name of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9][a-zA-Z0-9 _ . : / = + \ - @] *

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

CreatePolicy

Creates a policy. A policy combines templates and rules with enforcement settings for a firewall type, such as AWS WAF or AWS Shield Advanced. Use `isPublished` to create the policy in published (ACTIVE) or draft (DRAFT) state.

Request Syntax

```
POST /policies HTTP/1.1
Content-type: application/json

{
  "associatedTemplateAndRuleList": [
    { ... }
  ],
  "clientToken": "string",
  "firewallType": "string",
  "isPublished": boolean,
  "policyConfiguration": {
    "remediationEnabled": boolean,
    "resourcesCleanUp": boolean,
    "wafConfig": {
      "conflictResolution": "string",
      "existingCustomerWebACLResolution": "string"
    }
  },
  "policyDescription": "string",
  "policyName": "string",
  "priority": number,
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associatedTemplateAndRuleList

The templates and rules to associate with the policy. For AWS WAF policies, specify 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list must be empty.

Type: Array of [TemplateOrRuleReference](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT). Default: `true`.

Type: Boolean

Required: No

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: [PolicyConfiguration](#) object

Required: Yes

policyDescription

A description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: Yes

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ([\p{L}\p{Z}\p{N}_.: /+=\ -@] *)

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "associatedTemplateAndRuleList": [
    { ... }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "policyArn": "string",
  "policyConfiguration": {
    "remediationEnabled": boolean,
    "resourcesCleanUp": boolean,
    "wafConfig": {
      "conflictResolution": "string",
      "existingCustomerWebACLResolution": "string"
    }
  },
  "policyDescription": "string",
  "policyId": "string",
  "policyName": "string",
  "priority": number,
  "status": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

[associatedTemplateAndRuleList](#)

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of [AssociatedTemplateOrRule](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

[firewallType](#)

The firewall type associated with the resource.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

[hasPublishedVersion](#)

Specifies whether a published version of the resource exists.

Type: Boolean

[isSnapshot](#)

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

[policyArn](#)

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: [PolicyConfiguration](#) object

policyDescription

A description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

policyId

The service-generated id of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreatePolicySnapshot

Creates a snapshot of the current published version of the specified policy.

Request Syntax

```
POST /policies/policyIdentifier/snapshots HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\\x21-\\x7E]+`

Required: No

[tags](#)

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\\p{L}\\p{Z}\\p{N}_.: /+=\\-@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 201

Content-type: application/json

```
{
  "associatedTemplateAndRuleList": [
    { ... }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "policyArn": "string",
  "policyConfiguration": {
    "remediationEnabled": boolean,
    "resourcesCleanUp": boolean,
    "wafConfig": {
      "conflictResolution": "string",
      "existingCustomerWebACLResolution": "string"
    }
  },
  "policyDescription": "string",
  "policyId": "string",
  "policyName": "string",
```

```
"priority": number,  
"status": "string",  
"updatedAt": "string",  
"updateToken": "string",  
"version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

[associatedTemplateAndRuleList](#)

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of [AssociatedTemplateOrRule](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

[firewallType](#)

The firewall type associated with the resource.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

[hasPublishedVersion](#)

Specifies whether a published version of the resource exists.

Type: Boolean

[isSnapshot](#)

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

[policyArn](#)

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

[policyConfiguration](#)

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: [PolicyConfiguration](#) object

[policyDescription](#)

A description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

[policyId](#)

The service-generated id of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

[policyName](#)

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

[priority](#)

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateRule

Creates a rule. A rule defines a network security configuration to enforce, such as an AWS WAF rule group or configuration data. Use `isPublished` to create the rule in published (ACTIVE) or draft (DRAFT) state.

Request Syntax

```
POST /rules HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "configuration": JSON value,
  "firewallType": "string",
  "isPublished": boolean,
  "ruleDescription": "string",
  "ruleName": "string",
  "ruleType": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\\x21-\\x7E]+`

Required: No

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type. For an AWS WAF INSPECTION rule, provide an AWS WAF rule group. For an AWS WAF CONFIGURATION rule, provide a single web ACL setting, such as `DefaultAction` or `VisibilityConfig`; use `wafConfigDataType` to declare which setting the document contains. For the schema of each setting and complete examples, see [Writing rule configurations](#) in the *AWS Network Security Manager Developer Guide*.

Type: JSON value

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT). Default: `true`.

Type: Boolean

Required: No

ruleDescription

A description of the rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\\-@]*`

Required: No

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: Yes

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

Required: Yes

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `( [\p{L}\p{Z}\p{N}_.: /+=\ -@]* )`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
```

Content-type: application/json

```
{
  "configuration": JSON value,
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "ruleArn": "string",
  "ruleDescription": "string",
  "ruleId": "string",
  "ruleName": "string",
  "ruleType": "string",
  "status": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

ruleDescription

A description of the rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

ruleId

The service-generated id of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateRuleSnapshot

Creates a snapshot of the current published version of the specified rule. A snapshot is an immutable, versioned copy that other resources can reference.

Request Syntax

```
POST /rules/ruleIdentifier/snapshots HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "configuration": JSON value,
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "ruleArn": "string",
  "ruleDescription": "string",
  "ruleId": "string",
  "ruleName": "string",
  "ruleType": "string",
  "status": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?{2}:(.+)`

ruleDescription

A description of the rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

ruleId

The service-generated id of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`-){3}(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateScope

Creates a scope. A scope selects the accounts and resources that a deployment applies to. Use `isPublished` to create the scope in published (ACTIVE) or draft (DRAFT) state.

Request Syntax

```
POST /scopes HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "isPublished": boolean,
  "scopeConfiguration": {
    "accountFilter": { ... },
    "resourceScopes": {
      "string" : {
        "exclude": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "include": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "includeAll": boolean
      }
    }
  },
  "scopeDescription": "string",
  "scopeName": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT). Default: `true`.

Type: Boolean

Required: No

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: [ScopeConfiguration](#) object

Required: Yes

scopeDescription

A description of the scope.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

scopeName

The name of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: Yes

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 201

Content-type: application/json

```
{
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "scopeArn": "string",
  "scopeConfiguration": {
    "accountFilter": { ... },
    "resourceScopes": {
      "string" : {
```

```
    "exclude": {
      "explicitArns": [ "string" ],
      "expression": { ... }
    },
    "include": {
      "explicitArns": [ "string" ],
      "expression": { ... }
    },
    "includeAll": boolean
  }
},
"scopeDescription": "string",
"scopeId": "string",
"scopeName": "string",
"status": "string",
"updatedAt": "string",
"updateToken": "string",
"version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?{2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: [ScopeConfiguration](#) object

scopeDescription

A description of the scope.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

scopeId

The service-generated id of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

scopeName

The name of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

CreateScopeSnapshot

Creates a snapshot of the current published version of the specified scope.

Request Syntax

```
POST /scopes/scopeIdentifier/snapshots HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\p{L}\p{Z}\p{N}_./=+\-@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 201

Content-type: application/json

```
{
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "scopeArn": "string",
  "scopeConfiguration": {
    "accountFilter": { ... },
    "resourceScopes": {
      "string" : {
        "exclude": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "include": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "includeAll": boolean
      }
    }
  }
}
```

```
    }  
  },  
  "scopeDescription": "string",  
  "scopeId": "string",  
  "scopeName": "string",  
  "status": "string",  
  "updatedAt": "string",  
  "updateToken": "string",  
  "version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?)
{2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: [ScopeConfiguration](#) object

[scopeDescription](#)

A description of the scope.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

[scopeId](#)

The service-generated id of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

[scopeName](#)

The name of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

[status](#)

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

[updatedAt](#)

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`)-`{3}`(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateTemplate

Creates a template. A template groups one or more rules to simplify reuse across policies. You can also associate rules with a policy directly, without a template. Use `isPublished` to create the template in published (ACTIVE) or draft (DRAFT) state.

Request Syntax

```
POST /templates HTTP/1.1
Content-type: application/json

{
  "associatedRuleList": [
    {
      "ruleIdentifier": "string"
    }
  ],
  "clientToken": "string",
  "firewallType": "string",
  "isPublished": boolean,
  "tags": {
    "string" : "string"
  },
  "templateDescription": "string",
  "templateName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associatedRuleList

The rules associated with the template.

Type: Array of [RuleReference](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT). Default: `true`.

Type: Boolean

Required: No

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `( [\p{L}\p{Z}\p{N}_ . : / = + \ - @ ] * )`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

templateDescription

A description of the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

templateName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: Yes

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "associatedRuleList": [
    {
      "ruleArn": "string"
    }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "status": "string",
  "templateArn": "string",
```

```
"templateDescription": "string",  
"templateId": "string",  
"templateName": "string",  
"updatedAt": "string",  
"updateToken": "string",  
"version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

associatedRuleList

The rules associated with the template.

Type: Array of [AssociatedRule](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

templateId

The service-generated id of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`-){3}(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateTemplateSnapshot

Creates a snapshot of the current published version of the specified template.

Request Syntax

```
POST /templates/templateIdentifier/snapshots HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 201

Content-type: application/json

```
{
  "associatedRuleList": [
    {
      "ruleArn": "string"
    }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "status": "string",
  "templateArn": "string",
  "templateDescription": "string",
  "templateId": "string",
  "templateName": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

associatedRuleList

The rules associated with the template.

Type: Array of [AssociatedRule](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9_./+=\ -@]*`

templateId

The service-generated id of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_./+=\ -@]*`

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteAdminAccount

Removes the specified AWS Network Security Manager administrator account.

Request Syntax

```
DELETE /admin-account/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the administrator account to remove.

Length Constraints: Fixed length of 12.

Pattern: (`?:[0-9]{12}`)

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteDeployment

Deletes the specified deployment.

Request Syntax

```
DELETE /deployments/deploymentIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeletePolicy

Deletes the specified policy.

Request Syntax

```
DELETE /policies/policyIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyIdentifier](#)

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteRule

Deletes the specified rule.

Request Syntax

```
DELETE /rules/ruleIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteScope

Deletes the specified scope.

Request Syntax

```
DELETE /scopes/scopeIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteTemplate

Deletes the specified template.

Request Syntax

```
DELETE /templates/templateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GenerateRuleConfiguration

Generates a rule configuration from a natural-language description. Provide a prompt along with the rule's firewall type and rule type. The service returns a configuration that you can use when you create or update a rule. If you also provide an existing configuration, the service edits that configuration instead of generating a new one.

Request Syntax

```
POST /GenerateRuleConfiguration HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "currentConfiguration": "string",
  "prompt": "string",
  "ruleFirewallType": "string",
  "ruleType": "string",
  "wafConfigDataType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

currentConfiguration

An existing configuration to edit, as a JSON string. When you provide this value, the operation edits the configuration. When you omit it, the operation generates a new configuration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32768.

Required: No

prompt

A natural-language description of the configuration that you want to generate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Pattern: `[A-Za-z0-9.,?!@&:;()'"s\-\V\n_=<>+*\#\[\]\{\}]*`

Required: Yes

ruleFirewallType

The firewall type of the rule.

Type: String

Valid Values: WAF

Required: Yes

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

Required: Yes

wafConfigDataType

For AWS WAF configuration rules, the specific AWS WAF configuration variant to generate. This is optional; if you omit it, the service selects the variant.

Type: String

Valid Values: DefaultAction | VisibilityConfig | CaptchaConfig | ChallengeConfig | CustomResponseBodies | LoggingConfiguration | DataProtectionConfig | AssociationConfig | OnSourceDDoSProtectionConfig | TokenDomains

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuration": "string",
  "description": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuration

The generated configuration, as a JSON string. You can use this value in the configuration field of a rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32768.

description

Reserved for a future human-readable description of the generated configuration. This field is currently not populated.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetAdminAccount

Retrieves the details of the specified AWS Network Security Manager administrator account.

Request Syntax

```
GET /admin-account/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the administrator account to retrieve.

Length Constraints: Fixed length of 12.

Pattern: (*?*: [0-9]{12})

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "adminAccountDetails": {
    "adminAccount": "string",
    "adminScope": {
      "firewallTypeScope": {
        "allFirewallTypesEnabled": boolean,
        "firewallTypes": [ "string" ]
      },
      "scopeFilter": { ... }
    }
  },
}
```

```
    "priority": number,  
    "status": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

adminAccountDetails

The details of the administrator account.

Type: [AdminAccountDetails](#) object

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

GetDeployment

Retrieves the details of the specified deployment, including coverage information and any warnings.

Request Syntax

```
GET /deployments/deploymentIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[deploymentIdentifier](#)

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "associatedPolicyList": [
    {
      "policyArn": "string"
    }
  ],
  "associatedScopeList": [
    {
      "scopeArn": "string"
    }
  ]
}
```

```

],
"deploymentArn": "string",
"deploymentConfiguration": {
  "enableCrossAccountVisibility": boolean
},
"deploymentCoverage": [
  {
    "firewallType": "string",
    "inScopeResourceTypes": [ "string" ],
    "policyArns": [ "string" ]
  }
],
"deploymentDescription": "string",
"deploymentId": "string",
"deploymentName": "string",
"hasPublishedVersion": boolean,
"isSnapshot": boolean,
"status": "string",
"updatedAt": "string",
"updateToken": "string",
"version": "string",
"warnings": [
  {
    "code": "string",
    "message": "string",
    "policyArn": "string"
  }
]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[associatedPolicyList](#)

The policies associated with the deployment.

Type: Array of [AssociatedPolicy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of [AssociatedScope](#) objects

Array Members: Fixed number of 1 item.

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?)?){2}:(.+)`

deploymentConfiguration

The configuration settings for the deployment.

Type: [DeploymentConfiguration](#) object

deploymentCoverage

The coverage information for the deployment. For each firewall type, it shows which policies have that firewall type and which in-scope resource types the firewall type protects.

Type: Array of [DeploymentCoverageEntry](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

deploymentDescription

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

deploymentId

The service-generated id of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable), ACTIVE (published, in use), or DISABLED (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`-){3}(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

warnings

Warnings about potential issues, such as a policy that has no applicable resources in the deployment's scope.

Type: Array of [DeploymentWarningEntry](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPolicy

Retrieves the details of the specified policy.

Request Syntax

```
GET /policies/policyIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyIdentifier](#)

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "associatedTemplateAndRuleList": [
    { ... }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "policyArn": "string",
  "policyConfiguration": {
    "remediationEnabled": boolean,
    "resourcesCleanUp": boolean,
```

```
    "wafConfig": {
      "conflictResolution": "string",
      "existingCustomerWebACLResolution": "string"
    },
    "policyDescription": "string",
    "policyId": "string",
    "policyName": "string",
    "priority": number,
    "status": "string",
    "updatedAt": "string",
    "updateToken": "string",
    "version": "string"
  }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

associatedTemplateAndRuleList

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of [AssociatedTemplateOrRule](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: [PolicyConfiguration](#) object

policyDescription

A description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

policyId

The service-generated id of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})`

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetRule

Retrieves the details of the specified rule.

Request Syntax

```
GET /rules/ruleIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuration": JSON value,
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "ruleArn": "string",
  "ruleDescription": "string",
  "ruleId": "string",
  "ruleName": "string",
  "ruleType": "string",
  "status": "string",
```

```
"updatedAt": "string",  
"updateToken": "string",  
"version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[configuration](#)

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

[firewallType](#)

The firewall type associated with the resource.

Type: String

Valid Values: WAF

[hasPublishedVersion](#)

Specifies whether a published version of the resource exists.

Type: Boolean

[isSnapshot](#)

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

[ruleArn](#)

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)?{2}:(.+)`

ruleDescription

A description of the rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

ruleId

The service-generated id of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`-){3}(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetScope

Retrieves the details of the specified scope.

Request Syntax

```
GET /scopes/scopeIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "scopeArn": "string",
  "scopeConfiguration": {
    "accountFilter": { ... },
    "resourceScopes": {
      "string" : {
        "exclude": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        }
      }
    }
  },
}
```

```
    "include": {
      "explicitArns": [ "string" ],
      "expression": { ... }
    },
    "includeAll": boolean
  }
},
"scopeDescription": "string",
"scopeId": "string",
"scopeName": "string",
"status": "string",
"updatedAt": "string",
"updateToken": "string",
"version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: [ScopeConfiguration](#) object

scopeDescription

A description of the scope.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

scopeId

The service-generated id of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

scopeName

The name of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

status

The current status of the resource: DRAFT (unpublished, editable), ACTIVE (published, in use), or DISABLED (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetTemplate

Retrieves the details of the specified template.

Request Syntax

```
GET /templates/templateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "associatedRuleList": [
    {
      "ruleArn": "string"
    }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "status": "string",
  "templateArn": "string",
```

```
"templateDescription": "string",  
"templateId": "string",  
"templateName": "string",  
"updatedAt": "string",  
"updateToken": "string",  
"version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

associatedRuleList

The rules associated with the template.

Type: Array of [AssociatedRule](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

templateId

The service-generated id of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAdminAccounts

Lists the AWS Network Security Manager administrator accounts in the organization.

Request Syntax

```
GET /admin-accounts?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "adminAccounts": [
    {
```

```
    "accountId": "string",
    "email": "string",
    "name": "string",
    "priority": number
  }
],
"nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

adminAccounts

The list of administrator accounts.

Type: Array of [AdminAccountSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
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- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAggregateResourceSynchronizationStatuses

Lists the aggregated synchronization statuses of resources across the deployments in your administrator account. You can filter the results by synchronization status and page through them.

Request Syntax

```
GET /aggregate-sync-statuses?
maxResults=maxResults&nextToken=nextToken&synchronizationStatus=synchronizationStatus
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

[synchronizationStatus](#)

Filters the results by synchronization status, such as `IN_SYNC` or `OUT_OF_SYNC`.

Valid Values: `IN_SYNC` | `OUT_OF_SYNC` | `NOT_APPLICABLE`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resourceSynchronizationStatuses": [
    {
      "accountId": "string",
      "deploymentArn": "string",
      "evaluatedAt": "string",
      "outOfSyncReasons": { ... },
      "remediationIssues": { ... },
      "resourceArn": "string",
      "resourceType": "string",
      "synchronizationStatus": "string",
      "updatedAt": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceSynchronizationStatuses

The list of resource synchronization statuses.

Type: Array of [ResourceSynchronizationStatusSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListDeployments

Lists the deployments in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /deployments?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

[status](#)

Filters the results by status: ACTIVE, DRAFT, or DISABLED.

Valid Values: ACTIVE | DRAFT | DISABLED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "deployments": [
    {
      "deploymentArn": "string",
      "deploymentId": "string",
      "deploymentName": "string",
      "hasPublishedVersion": boolean,
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

deployments

The list of deployments.

Type: Array of [DeploymentSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListDeploymentSnapshots

Lists the snapshots of the specified deployment.

Request Syntax

```
GET /deployments/deploymentIdentifier/snapshots?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "snapshots": [
    {
      "deploymentArn": "string",
      "deploymentId": "string",
      "deploymentName": "string",
      "hasPublishedVersion": boolean,
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [0-9A-Za-z:/+=\$_-]+

snapshots

The snapshots of the deployment.

Type: Array of [DeploymentSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPolicies

Lists the policies in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /policies?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status, either ACTIVE or DRAFT.

Valid Values: ACTIVE | DRAFT | DISABLED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "policies": [
    {
      "firewallType": "string",
      "hasPublishedVersion": boolean,
      "policyArn": "string",
      "policyId": "string",
      "policyName": "string",
      "priority": number,
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [0-9A-Za-z:/+=\$_-]+

policies

The list of policies.

Type: Array of [PolicySummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPolicySnapshots

Lists the snapshots of the specified policy.

Request Syntax

```
GET /policies/policyIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

[policyIdentifier](#)

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "snapshots": [
    {
      "firewallType": "string",
      "hasPublishedVersion": boolean,
      "policyArn": "string",
      "policyId": "string",
      "policyName": "string",
      "priority": number,
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the policy.

Type: Array of [PolicySummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListResourceAssociations

Lists the resources associated with the specified resource.

Request Syntax

```
GET /resource-associations?  
maxResults=maxResults&nextToken=nextToken&resourceIdentifier=resourceIdentifier  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceIdentifier

The identifier of the resource to list associations for. This is the resource's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resourceAssociations": [
    {
      "arn": "string",
      "resourceType": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=$_- ]+`

resourceAssociations

The list of resource associations.

Type: Array of [ResourceAssociation](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListResourceSynchronizationStatuses

Lists the synchronization statuses of the resources covered by the specified deployment. You can filter the results by synchronization status and page through them.

Request Syntax

```
GET /resource-sync-statuses?
deploymentIdentifier=deploymentIdentifier&maxResults=maxResults&nextToken=nextToken&synchronizationStatus=synchronizationStatus
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment to list synchronization statuses for. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

synchronizationStatus

Filters the results by synchronization status, such as `IN_SYNC` or `OUT_OF_SYNC`.

Valid Values: IN_SYNC | OUT_OF_SYNC | NOT_APPLICABLE

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resourceSynchronizationStatuses": [
    {
      "accountId": "string",
      "deploymentArn": "string",
      "evaluatedAt": "string",
      "outOfSyncReasons": { ... },
      "remediationIssues": { ... },
      "resourceArn": "string",
      "resourceType": "string",
      "synchronizationStatus": "string",
      "updatedAt": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

[resourceSynchronizationStatuses](#)

The list of resource synchronization statuses.

Type: Array of [ResourceSynchronizationStatusSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListRules

Lists the rules in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /rules?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

[status](#)

Filters the results by status, either ACTIVE or DRAFT.

Valid Values: ACTIVE | DRAFT | DISABLED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "nextToken": "string",
  "rules": [
    {
      "firewallType": "string",
      "hasPublishedVersion": boolean,
      "ruleArn": "string",
      "ruleId": "string",
      "ruleName": "string",
      "ruleType": "string",
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [0-9A-Za-z:/+=\$_-]+

rules

The list of rules.

Type: Array of [RuleSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListRuleSnapshots

Lists the snapshots of the specified rule.

Request Syntax

```
GET /rules/ruleIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "snapshots": [
    {
      "firewallType": "string",
      "hasPublishedVersion": boolean,
      "ruleArn": "string",
      "ruleId": "string",
      "ruleName": "string",
      "ruleType": "string",
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the rule.

Type: Array of [RuleSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListScopes

Lists the scopes in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /scopes?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

[status](#)

Filters the results by status: ACTIVE, DRAFT, or DISABLED.

Valid Values: ACTIVE | DRAFT | DISABLED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "scopes": [
    {
      "hasPublishedVersion": boolean,
      "scopeArn": "string",
      "scopeId": "string",
      "scopeName": "string",
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

[scopes](#)

The list of scopes.

Type: Array of [ScopeSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListScopeSnapshots

Lists the snapshots of the specified scope.

Request Syntax

```
GET /scopes/scopeIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "snapshots": [
    {
      "hasPublishedVersion": boolean,
      "scopeArn": "string",
      "scopeId": "string",
      "scopeName": "string",
      "status": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [0-9A-Za-z:/+=\$_-]+

snapshots

The snapshots of the scope.

Type: Array of [ScopeSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Lists the tags associated with the specified resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to list tags for. The ARN must not include a :DRAFT qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)`
`{2}:(.+)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

The tags associated with the resource. Each tag is a key-value pair.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ([\p{L}\p{Z}\p{N}_ . : / = + \ - @] *)

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

ListTemplates

Lists the templates in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /templates?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status, either ACTIVE or DRAFT.

Valid Values: ACTIVE | DRAFT | DISABLED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "templates": [
    {
      "firewallType": "string",
      "hasPublishedVersion": boolean,
      "status": "string",
      "templateArn": "string",
      "templateId": "string",
      "templateName": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [0-9A-Za-z:/+=\$_-]+

templates

The list of templates.

Type: Array of [TemplateSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTemplateSnapshots

Lists the snapshots of the specified template.

Request Syntax

```
GET /templates/templateIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[0-9A-Za-z:/+=_- ]+`

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "snapshots": [
    {
      "firewallType": "string",
      "hasPublishedVersion": boolean,
      "status": "string",
      "templateArn": "string",
      "templateId": "string",
      "templateName": "string",
      "updatedAt": "string",
      "version": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [0-9A-Za-z:/+="_-]+

snapshots

The snapshots of the template.

Type: Array of [TemplateSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

PutAdminAccount

Sets the AWS account that serves as an AWS Network Security Manager administrator account, and optionally configures the scope of resources that the administrator can manage.

You can't set an administrator account again immediately after you remove it, or while the service creates its service-linked role. Retry the request after a few minutes.

Request Syntax

```
PUT /admin-account HTTP/1.1
Content-type: application/json

{
  "accountId": "string",
  "adminScope": {
    "firewallTypeScope": {
      "allFirewallTypesEnabled": boolean,
      "firewallTypes": [ "string" ]
    },
    "scopeFilter": { ... }
  },
  "priority": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

accountId

The AWS account ID to set as the AWS Network Security Manager administrator account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: (?:[0-9]{12})

Required: Yes

[adminScope](#)

The scope of accounts, organizational units, and firewall types that the administrator can manage.

Type: [AdminScopeInput](#) object

Required: No

[priority](#)

The priority to assign to the administrator account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "adminAccountDetails": {
    "adminAccount": "string",
    "adminScope": {
      "firewallTypeScope": {
        "allFirewallTypesEnabled": boolean,
        "firewallTypes": [ "string" ]
      },
      "scopeFilter": { ... }
    },
    "priority": number,
    "status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

adminAccountDetails

The details of the administrator account that was set.

Type: [AdminAccountDetails](#) object

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds or overwrites the specified tags on the given resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to tag. The ARN must not include a :DRAFT qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?{2}:(.+)`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags to add to the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ([\p{L}\p{Z}\p{N}_ . : / = + \ - @] *)

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes the specified tags from the given resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to remove tags from. The ARN must not include a :DRAFT qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?{2}:(.+)`

Required: Yes

tagKeys

The keys of the tags to remove from the resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateDeployment

Updates the specified deployment. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the deployment as a draft.

Request Syntax

```
PATCH /deployments/deploymentIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "associatedPolicyList": [
    {
      "policyIdentifier": "string"
    }
  ],
  "associatedScopeList": [
    {
      "scopeIdentifier": "string"
    }
  ],
  "clientToken": "string",
  "deploymentConfiguration": {
    "enableCrossAccountVisibility": boolean
  },
  "deploymentDescription": "string",
  "isPublished": boolean,
  "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

associatedPolicyList

The policies associated with the deployment.

Type: Array of [PolicyReference](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: No

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of [ScopeReference](#) objects

Array Members: Fixed number of 1 item.

Required: No

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

deploymentConfiguration

The configuration settings for the deployment.

Type: [DeploymentConfiguration](#) object

Required: No

deploymentDescription

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT).

Type: Boolean

Required: Yes

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "associatedPolicyList": [
```

```

    {
      "policyArn": "string"
    }
  ],
  "associatedScopeList": [
    {
      "scopeArn": "string"
    }
  ],
  "deploymentArn": "string",
  "deploymentConfiguration": {
    "enableCrossAccountVisibility": boolean
  },
  "deploymentCoverage": [
    {
      "firewallType": "string",
      "inScopeResourceTypes": [ "string" ],
      "policyArns": [ "string" ]
    }
  ],
  "deploymentDescription": "string",
  "deploymentId": "string",
  "deploymentName": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "status": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string",
  "warnings": [
    {
      "code": "string",
      "message": "string",
      "policyArn": "string"
    }
  ]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[associatedPolicyList](#)

The policies associated with the deployment.

Type: Array of [AssociatedPolicy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

[associatedScopeList](#)

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of [AssociatedScope](#) objects

Array Members: Fixed number of 1 item.

[deploymentArn](#)

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

[deploymentConfiguration](#)

The configuration settings for the deployment.

Type: [DeploymentConfiguration](#) object

[deploymentCoverage](#)

The coverage information for the deployment. For each firewall type, it shows which policies have that firewall type and which in-scope resource types the firewall type protects.

Type: Array of [DeploymentCoverageEntry](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

[deploymentDescription](#)

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

deploymentId

The service-generated id of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

warnings

Warnings about potential issues, such as a policy that has no applicable resources in the deployment's scope.

Type: Array of [DeploymentWarningEntry](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdatePolicy

Updates the specified policy. To prevent conflicting concurrent updates, provide the current updateToken. Use isPublished to publish the update or keep the policy as a draft.

Request Syntax

```
PATCH /policies/policyIdentifier HTTP/1.1
Content-type: application/json

{
  "associatedTemplateAndRuleList": [
    { ... }
  ],
  "clientToken": "string",
  "isPublished": boolean,
  "policyConfiguration": {
    "remediationEnabled": boolean,
    "resourcesCleanUp": boolean,
    "wafConfig": {
      "conflictResolution": "string",
      "existingCustomerWebACLResolution": "string"
    }
  },
  "policyDescription": "string",
  "priority": number,
  "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[associatedTemplateAndRuleList](#)

The templates and rules to associate with the policy. For AWS WAF policies, specify 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list must be empty.

Type: Array of [TemplateOrRuleReference](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

[clientToken](#)

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

[isPublished](#)

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT).

Type: Boolean

Required: Yes

[policyConfiguration](#)

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: [PolicyConfiguration](#) object

Required: No

policyDescription

A description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"associatedTemplateAndRuleList": [  
  { ... }  
],  
"firewallType": "string",  
"hasPublishedVersion": boolean,  
"isSnapshot": boolean,  
"policyArn": "string",  
"policyConfiguration": {  
  "remediationEnabled": boolean,  
  "resourcesCleanUp": boolean,  
  "wafConfig": {  
    "conflictResolution": "string",  
    "existingCustomerWebACLResolution": "string"  
  }  
},  
"policyDescription": "string",  
"policyId": "string",  
"policyName": "string",  
"priority": number,  
"status": "string",  
"updatedAt": "string",  
"updateToken": "string",  
"version": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

associatedTemplateAndRuleList

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of [AssociatedTemplateOrRule](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: [PolicyConfiguration](#) object

policyDescription

A description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

policyId

The service-generated id of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateRule

Updates the specified rule. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the rule as a draft.

Request Syntax

```
PATCH /rules/ruleIdentifier HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "configuration": JSON value,
  "isPublished": boolean,
  "ruleDescription": "string",
  "ruleType": "string",
  "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type. For an AWS WAF INSPECTION rule, provide an AWS WAF rule group. For an AWS WAF CONFIGURATION rule, provide a single web ACL setting, such as `DefaultAction` or `VisibilityConfig`; use `wafConfigDataType` to declare which setting the document contains. For the schema of each setting and complete examples, see [Writing rule configurations](#) in the *AWS Network Security Manager Developer Guide*.

Type: JSON value

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT).

Type: Boolean

Required: Yes

ruleDescription

A description of the rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

Required: Yes

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "configuration": JSON value,
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "ruleArn": "string",
  "ruleDescription": "string",
  "ruleId": "string",
  "ruleName": "string",
  "ruleType": "string",
  "status": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

ruleDescription

A description of the rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

ruleId

The service-generated id of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`-){3}(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateScope

Updates the specified scope. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the scope as a draft.

Request Syntax

```
PATCH /scopes/scopeIdentifier HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "isPublished": boolean,
  "scopeConfiguration": {
    "accountFilter": { ... },
    "resourceScopes": {
      "string" : {
        "exclude": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "include": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "includeAll": boolean
      }
    }
  },
  "scopeDescription": "string",
  "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT).

Type: Boolean

Required: Yes

scopeConfiguration

The configuration that defines which accounts and resources are in scope. If you don't include this member, the scope keeps its existing configuration.

A new configuration can change which accounts and resources are selected, but it can't add or remove the account filter itself: a scope created for multi-account use stays multi-account, and a scope created for single-account use stays single-account.

Type: [ScopeConfiguration](#) object

Required: No

scopeDescription

A description of the scope.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})`

Required: Yes

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "scopeArn": "string",
  "scopeConfiguration": {
    "accountFilter": { ... },
    "resourceScopes": {
      "string" : {
        "exclude": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        },
        "include": {
          "explicitArns": [ "string" ],
          "expression": { ... }
        }
      }
    }
  }
}
```

```
        "includeAll": boolean
      }
    },
    "scopeDescription": "string",
    "scopeId": "string",
    "scopeName": "string",
    "status": "string",
    "updatedAt": "string",
    "updateToken": "string",
    "version": "string"
  }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?)?{2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: [ScopeConfiguration](#) object

[scopeDescription](#)

A description of the scope.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

[scopeId](#)

The service-generated id of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

[scopeName](#)

The name of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

[status](#)

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

[updatedAt](#)

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: (`[0-9a-f]{8}`)-(`[0-9a-f]{4}`-){3}(`[0-9a-f]{12}`)

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerErrorException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateTemplate

Updates the specified template. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the template as a draft.

Request Syntax

```
PATCH /templates/templateIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "associatedRuleList": [
    {
      "ruleIdentifier": "string"
    }
  ],
  "clientToken": "string",
  "isPublished": boolean,
  "templateDescription": "string",
  "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

associatedRuleList

The rules associated with the template.

Type: Array of [RuleReference](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

[**clientToken**](#)

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\x21-\x7E]+`

Required: No

[**isPublished**](#)

Specifies whether to publish the resource. When `true`, the resource is saved in published (ACTIVE) state. When `false`, it is saved as a draft (DRAFT).

Type: Boolean

Required: Yes

[**templateDescription**](#)

A description of the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

[**updateToken**](#)

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "associatedRuleList": [
    {
      "ruleArn": "string"
    }
  ],
  "firewallType": "string",
  "hasPublishedVersion": boolean,
  "isSnapshot": boolean,
  "status": "string",
  "templateArn": "string",
  "templateDescription": "string",
  "templateId": "string",
  "templateName": "string",
  "updatedAt": "string",
  "updateToken": "string",
  "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

associatedRuleList

The rules associated with the template.

Type: Array of [AssociatedRule](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

[firewallType](#)

The firewall type associated with the resource.

Type: String

Valid Values: WAF

[hasPublishedVersion](#)

Specifies whether a published version of the resource exists.

Type: Boolean

[isSnapshot](#)

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

[status](#)

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

[templateArn](#)

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

[templateDescription](#)

A description of the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9 _ . : / = + \ - @]*`

templateId

The service-generated id of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _ . : / = + \ - @]*`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an updateToken. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `([0-9a-f]{8})-([0-9a-f]{4}-){3}([0-9a-f]{12})`

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerError

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS Network Security Manager Customer API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AccountFilter](#)
- [AccountReference](#)
- [AccountSet](#)
- [AdminAccountDetails](#)
- [AdminAccountSummary](#)
- [AdminFirewallTypeScope](#)
- [AdminScope](#)
- [AdminScopeFilter](#)
- [AdminScopeFilterInput](#)
- [AdminScopeInput](#)
- [AdminScopeSelection](#)
- [AdminScopeSelectionInput](#)
- [AlbConfiguration](#)
- [AssociatedPolicy](#)
- [AssociatedRule](#)
- [AssociatedScope](#)
- [AssociatedTemplateOrRule](#)
- [ConfigurationIssue](#)
- [DeploymentConfiguration](#)
- [DeploymentCoverageEntry](#)

- [DeploymentSummary](#)
- [DeploymentWarningEntry](#)
- [FirewallSyncReason](#)
- [InvalidFirewallReasons](#)
- [NotVisibleMarker](#)
- [OrganizationalUnitReference](#)
- [OutOfSyncReasonsView](#)
- [PolicyConfiguration](#)
- [PolicyReference](#)
- [PolicySummary](#)
- [RemediationIssueDetails](#)
- [RemediationIssuesView](#)
- [ResourceAssociation](#)
- [ResourceCriteria](#)
- [ResourceLogicalExpression](#)
- [ResourceScope](#)
- [ResourceSet](#)
- [ResourceSynchronizationStatusSummary](#)
- [RuleReference](#)
- [RuleSummary](#)
- [ScopeConfiguration](#)
- [ScopeReference](#)
- [ScopeSummary](#)
- [TemplateOrRuleReference](#)
- [TemplateSummary](#)
- [ValidationExceptionField](#)
- [WafConfig](#)

AccountFilter

Determines which accounts are in scope. Exactly one of `includeAll`, `include`, or `exclude` is set.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

exclude

Excludes the specified accounts and organizational units. All others are in scope.

Type: [AccountSet](#) object

Required: No

include

Includes only the specified accounts and organizational units.

Type: [AccountSet](#) object

Required: No

includeAll

Includes all accounts. No account filtering is applied.

Type: Structure

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AccountReference

A reference to an AWS account, with optional display metadata.

Contents

accountId

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: (?:[0-9]{12})

Required: Yes

email

The email address associated with the account.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 64.

Required: No

name

The display name of the account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AccountSet

A set of AWS accounts and organizational units.

Contents

accountIds

The list of AWS account IDs.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Fixed length of 12.

Pattern: (?:[0-9]{12})

Required: No

organizationalUnits

The AWS Organizations organizational units (OUs) in the selection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Minimum length of 0. Maximum length of 68.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminAccountDetails

The details of an AWS Network Security Manager administrator account.

Contents

adminAccount

The AWS account ID of the administrator account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: (?:[0-9]{12})

Required: Yes

priority

The priority assigned to the administrator account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

adminScope

The administrative scope, which defines the accounts, organizational units, and firewall types that the administrator can manage.

Type: [AdminScope](#) object

Required: No

status

The status of the administrator account, either ONBOARDED or OFFBOARDED.

Type: String

Valid Values: ONBOARDED | OFFBOARDED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminAccountSummary

Summary information about an AWS Network Security Manager administrator account.

Contents

accountId

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: (?:[0-9]{12})

Required: Yes

email

The email address associated with the account.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

name

The name of the administrator account.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

priority

The priority assigned to the administrator account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminFirewallTypeScope

Defines the firewall types that an administrator can create and manage.

Contents

allFirewallTypesEnabled

Specifies whether the administrator can manage all firewall types, except for third-party firewall types.

Type: Boolean

Required: No

firewallTypes

The list of firewall types that the administrator can manage.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Valid Values: WAF | SHIELD_ADVANCED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminScope

Defines the accounts, organizational units, and firewall types that an administrator can manage.

Contents

firewallTypeScope

The firewall types that the administrator can create and manage.

Type: [AdminFirewallTypeScope](#) object

Required: No

scopeFilter

The filter that determines which accounts and organizational units are in the administrator's scope.

Type: [AdminScopeFilter](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminScopeFilter

Determines which accounts and organizational units are in an administrator's scope. This is the reference form, which includes display metadata.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

excludeOnly

The accounts and organizational units to exclude from the administrator's scope. All others are in scope.

Type: [AdminScopeSelection](#) object

Required: No

includeAll

All accounts and organizational units are in scope.

Type: Structure

Required: No

includeOnly

Only the specified accounts and organizational units are in the administrator's scope.

Type: [AdminScopeSelection](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminScopeFilterInput

Determines which accounts and organizational units are in an administrator's scope. This is the input form, which uses account and organizational unit IDs.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

excludeOnly

The accounts and organizational units to exclude from the administrator's scope. All others are in scope.

Type: [AdminScopeSelectionInput](#) object

Required: No

includeAll

All accounts and organizational units are in scope.

Type: Structure

Required: No

includeOnly

Only the specified accounts and organizational units are in the administrator's scope.

Type: [AdminScopeSelectionInput](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminScopeInput

The administrative scope configuration provided on input, using account and organizational unit IDs.

Contents

firewallTypeScope

The firewall types that the administrator can create and manage.

Type: [AdminFirewallTypeScope](#) object

Required: No

scopeFilter

The filter that determines which accounts and organizational units are in the administrator's scope.

Type: [AdminScopeFilterInput](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminScopeSelection

A selection of accounts and organizational units. This is the reference form, which includes display metadata.

Contents

accounts

The AWS accounts in the selection.

Type: Array of [AccountReference](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: No

organizationalUnits

The AWS Organizations organizational units (OUs) in the selection.

Type: Array of [OrganizationalUnitReference](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AdminScopeSelectionInput

A selection of accounts and organizational units. This is the input form, which uses account and organizational unit IDs.

Contents

accounts

The AWS accounts in the selection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Fixed length of 12.

Pattern: (?:[0-9]{12})

Required: No

organizationalUnits

The AWS Organizations organizational units (OUs) in the selection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 16. Maximum length of 68.

Pattern: (ou-[0-9a-z]{4,32}-[a-z0-9]{8,32})

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

AlbConfiguration

Filter criteria specific to Application Load Balancers.

Contents

ipAddressType

The IP address type of the Application Load Balancer.

Type: String

Valid Values: `ipv4` | `dualstack` | `dualstack-without-public-ipv4`

Required: No

scheme

The scheme of the Application Load Balancer, either `internet-facing` or `internal`.

Type: String

Valid Values: `internet-facing` | `internal`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssociatedPolicy

An association between a deployment and a policy, as returned in outputs. The corresponding request structure is `PolicyReference`.

Contents

`policyArn`

The ARN of the associated policy, including its version qualifier when a specific published version is pinned (for example, `...:policy:abc123:3`).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssociatedRule

An association between a template and a rule, as returned in outputs. The corresponding request structure is `RuleReference`.

Contents

ruleArn

The ARN of the associated rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssociatedScope

An association between a deployment and a scope, as returned in outputs. The corresponding request structure is `ScopeReference`.

Contents

scopeArn

The ARN of the associated scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssociatedTemplateOrRule

An association between a policy and either a template or a rule, as returned in outputs. Exactly one of `templateArn` or `ruleArn` is set. The corresponding request structure is `TemplateOrRuleReference`.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

ruleArn

The ARN of the associated rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

Required: No

templateArn

The ARN of the associated template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConfigurationIssue

Describes a single configuration value that does not match the intended configuration.

Contents

actualValue

The configuration value that was found on the resource.

Type: String

Required: No

configurationName

The name of the configuration setting that is in conflict.

Type: String

Required: No

expectedValue

The configuration value that AWS Network Security Manager expected.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DeploymentConfiguration

Configuration settings that control a deployment's behavior.

Contents

enableCrossAccountVisibility

Specifies whether aggregate synchronization status details for the resources covered by this deployment are visible across accounts. Default: `false`.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DeploymentCoverageEntry

Coverage information for one firewall type within a deployment. It lists the deployment's policies that have this firewall type. It also lists the resource types in the deployment's scope that the firewall type protects.

Contents

firewallType

The firewall type that the policies in this entry share.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

Required: Yes

inScopeResourceTypes

The resource types in the deployment's scope that this firewall type protects. This list is empty if the scope does not select any resource types that the firewall type protects.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Valid Values: AWS::ApiGateway::Stage | AWS::CloudFront::Distribution | AWS::EC2::EIP | AWS::ElasticLoadBalancingV2::LoadBalancer::application | AWS::ElasticLoadBalancing::LoadBalancer

Required: Yes

policyArns

The Amazon Resource Names (ARNs) of the deployment's policies that have this firewall type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?)
{2}:(.+)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DeploymentSummary

Summary information about a deployment.

Contents

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

deploymentId

The service-generated id of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

Required: Yes

deploymentName

The name of the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

status

The current status of the resource: DRAFT (unpublished, editable), ACTIVE (published, in use), or DISABLED (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

DeploymentWarningEntry

A warning about a potential issue with a deployment.

Contents

code

A code that identifies the type of warning.

Type: String

Required: Yes

message

A human-readable description of the warning.

Type: String

Required: Yes

policyArn

The ARN of the policy that the warning relates to.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?{2}:(.+)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

FirewallSyncReason

Describes why a firewall is out of sync. Exactly one of `missingFirewall` or `invalidFirewall` is set.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

invalidFirewall

Details about a firewall whose configuration does not match the intended configuration.

Type: [InvalidFirewallReasons](#) object

Required: No

missingFirewall

Indicates that an expected firewall is missing. The value describes the missing firewall.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

InvalidFirewallReasons

Details about the ways in which a firewall's configuration differs from the intended configuration.

Contents

incorrectAppendableConfigurationOrder

Appendable configuration values that are present but in the wrong order.

Type: Array of [ConfigurationIssue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

incorrectSingleValueConfigurations

Single-value configuration settings whose values do not match the expected values.

Type: Array of [ConfigurationIssue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

missingAppendableConfigurationValues

Appendable configuration values that are expected but missing.

Type: Array of [ConfigurationIssue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

missingMergeableConfigurationValues

Mergeable configuration values that are expected but missing.

Type: Array of [ConfigurationIssue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

unexpectedAppendableConfigurationValues

Appendable configuration values that are present but not expected.

Type: Array of [ConfigurationIssue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

unexpectedMergeableConfigurationValues

Mergeable configuration values that are present but not expected.

Type: Array of [ConfigurationIssue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

NotVisibleMarker

Indicates that details are not visible because of cross-account restrictions.

Contents

reason

The reason the details are not visible.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OrganizationalUnitReference

A reference to an AWS Organizations organizational unit (OU), with optional display metadata.

Contents

id

The ID of the AWS Organizations organizational unit (OU).

Type: String

Length Constraints: Minimum length of 16. Maximum length of 68.

Pattern: (ou-[0-9a-z]{4,32}-[a-z0-9]{8,32})

Required: Yes

name

The display name of the organizational unit.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OutOfSyncReasonsView

The out-of-sync reasons for a resource, or a marker indicating that the details are not visible. Exactly one member is set.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

notVisible

Indicates that the details are not visible because of cross-account restrictions.

Type: [NotVisibleMarker](#) object

Required: No

reasons

The out-of-sync reasons, keyed by firewall type.

Type: String to [FirewallSyncReason](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 10 items.

Valid Keys: WAF | SHIELD_ADVANCED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

PolicyConfiguration

Configuration settings that control a policy's behavior.

Contents

remediationEnabled

Specifies whether AWS Network Security Manager automatically remediates noncompliant resources. Default: `false`.

Type: Boolean

Required: Yes

resourcesCleanUp

Specifies whether AWS Network Security Manager automatically removes the resources it created when they are no longer needed. Default: `false`.

Type: Boolean

Required: Yes

wafConfig

AWS WAF-specific policy settings. This is populated only for AWS WAF policies.

Type: [WafConfig](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PolicyReference

A reference to a policy in a create or update request.

Contents

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN), optionally version-qualified to pin a specific published version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PolicySummary

Summary information about a policy.

Contents

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

policyId

The service-generated id of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF | SHIELD_ADVANCED

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RemediationIssueDetails

Details about a remediation issue for a firewall type.

Contents

correctiveAction

A recommended action for resolving the remediation issue.

Type: String

Required: No

issueType

The type of remediation issue.

Type: String

Required: No

message

A human-readable description of the remediation issue.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RemediationIssuesView

Remediation issue details for a resource, or a marker indicating that the details are not visible. Exactly one member is set.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

issues

The remediation issues, keyed by firewall type.

Type: String to [RemediationIssueDetails](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 10 items.

Valid Keys: WAF | SHIELD_ADVANCED

Required: No

notVisible

Indicates that the details are not visible because of cross-account restrictions.

Type: [NotVisibleMarker](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

ResourceAssociation

Describes an association between a resource and another entity.

Contents

arn

The ARN of the associated resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)`
`{2}:(.+)`

Required: Yes

resourceType

The type of the associated resource, such as Policy, Template, or Deployment.

Type: String

Valid Values: Rule | Template | Policy | Deployment | Scope

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceCriteria

A leaf condition that matches resources by tag or by resource-type-specific configuration.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

albConfig

Filter criteria specific to Application Load Balancers.

Type: [AlbConfiguration](#) object

Required: No

tags

Tag key-value pairs used to match resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceLogicalExpression

A logical expression that selects resources. Exactly one of `criteria`, `and`, `or`, or `not` is set.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

and

A list of subexpressions that must all match.

Type: Array of [ResourceLogicalExpression](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

criteria

A leaf condition that matches resources by tag or by resource-type-specific configuration.

Type: [ResourceCriteria](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

not

A subexpression that must not match.

Type: [ResourceLogicalExpression](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

or

A list of subexpressions of which at least one must match.

Type: Array of [ResourceLogicalExpression](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceScope

Defines which resources of a given type are in scope. Exactly one of `includeAll`, `include`, or `exclude` is set.

Contents

exclude

Excludes the resources that match the specified criteria or explicit ARNs.

Type: [ResourceSet](#) object

Required: No

include

Includes the resources that match the specified criteria or explicit ARNs.

Type: [ResourceSet](#) object

Required: No

includeAll

Includes all resources of the resource type.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceSet

A set of resources defined by explicit ARNs, a logical expression, or both.

Contents

explicitArns

An explicit list of resource ARNs.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?)?){2}:(.+)`

Required: No

expression

A logical expression that selects resources by combining criteria with AND, OR, and NOT operators.

Type: [ResourceLogicalExpression](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceSynchronizationStatusSummary

The synchronization status of a resource covered by a deployment.

Contents

accountId

The AWS account ID that owns the resource.

Type: String

Length Constraints: Fixed length of 12.

Pattern: (`?:[0-9]{12}`)

Required: Yes

resourceArn

The ARN of the resource whose synchronization status is reported.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?)?){2}:(.+)`

Required: Yes

synchronizationStatus

The synchronization status of the resource, such as IN_SYNC or OUT_OF_SYNC.

Type: String

Valid Values: IN_SYNC | OUT_OF_SYNC | NOT_APPLICABLE

Required: Yes

updatedAt

The time when the resource was last updated.

Type: Timestamp

Required: Yes

deploymentArn

The ARN of the deployment that the synchronization status is associated with. This is absent for aggregate (cross-deployment) statuses.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?)?){2}:(.+)`

Required: No

evaluatedAt

The time when the synchronization status was last evaluated.

Type: Timestamp

Required: No

outOfSyncReasons

The reasons the resource is out of sync, keyed by firewall type. This is null when the resource is in sync.

Type: [OutOfSyncReasonsView](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

remediationIssues

Details about remediation issues, keyed by firewall type. This is null when there are no remediation issues.

Type: [RemediationIssuesView](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

resourceType

The type of the resource, in AWS CloudFormation format.

Type: String

Valid Values: `AWS::ApiGateway::Stage` | `AWS::CloudFront::Distribution` | `AWS::EC2::EIP` | `AWS::ElasticLoadBalancingV2::LoadBalancer::application` | `AWS::ElasticLoadBalancing::LoadBalancer` | `AWS::WAFv2::WebACL` | `AWS::Shield::Protection` | `AWS::ShieldRegional::Protection`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RuleReference

A reference to a rule in a create or update request.

Contents

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RuleSummary

Summary information about a rule.

Contents

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

ruleId

The service-generated id of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

Required: Yes

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

ruleType

The type of the rule. CONFIGURATION rules contain firewall settings, and INSPECTION rules contain rule groups.

Type: String

Valid Values: CONFIGURATION | INSPECTION

Required: No

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScopeConfiguration

Defines which accounts and resources are in scope.

Contents

resourceScopes

The resource-level scoping configuration, keyed by resource type, that defines which resources within the selected accounts are in scope.

Type: String to [ResourceScope](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 20 items.

Valid Keys: `AWS::ApiGateway::Stage` | `AWS::CloudFront::Distribution` | `AWS::EC2::EIP` | `AWS::ElasticLoadBalancingV2::LoadBalancer::application` | `AWS::ElasticLoadBalancing::LoadBalancer`

Required: Yes

accountFilter

The account filter that determines which accounts are in scope. When set, exactly one of `includeAll`, `include`, or `exclude` is set.

Organization administrators must include an account filter in every scope configuration. Single-account administrators must omit it: a scope without an account filter applies only to the administrator's own account. The presence of an account filter is fixed when the scope is created: an update can't add an account filter to a scope that was created without one, or remove the account filter from a scope that was created with one.

Type: [AccountFilter](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScopeReference

A reference to a scope in a create or update request.

Contents

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScopeSummary

Summary information about a scope.

Contents

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

scopeId

The service-generated id of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

Required: Yes

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

scopeName

The name of the scope.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: No

status

The current status of the resource: DRAFT (unpublished, editable), ACTIVE (published, in use), or DISABLED (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TemplateOrRuleReference

A reference to either a template or a rule in a create or update request. Set exactly one of `templateIdentifier` or `ruleIdentifier`.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: No

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

TemplateSummary

Summary information about a template.

Contents

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+(.[a-z0-9]+)*){2}(:([a-z0-9]+(.[a-z0-9]+)*)?){2}:(.+)`

Required: Yes

templateId

The service-generated id of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9]{1,64}`

Required: Yes

templateName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.: /+=\ -@]*`

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: WAF

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

status

The current status of the resource: DRAFT (unpublished, editable) or ACTIVE (published, in use).

Type: String

Valid Values: DRAFT | ACTIVE | DISABLED

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: [1-9][0-9]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValidationExceptionField

Describes a single request field that failed validation.

Contents

message

A message describing the validation error for the field.

Type: String

Required: Yes

name

The name of the field that failed validation.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

WafConfig

AWS WAF-specific policy configuration settings.

Contents

conflictResolution

The conflict-resolution strategy for AWS WAF policies. Required for AWS WAF policies.

Type: String

Valid Values: MERGE_WHERE_APPLICABLE

Required: Yes

existingCustomerWebACLResolution

Determines how AWS Network Security Manager handles remediation when a resource already has a customer-created web ACL. Required for AWS WAF policies.

Type: String

Valid Values: RETROFIT | OVERRIDE_ASSOCIATION | NO_REMEDIATION

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key/YYYYMMDD/region/service/aws4_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400