aws

API Reference

Amazon CloudWatch Observability Access Manager

API Version 2022-06-10

Amazon CloudWatch Observability Access Manager: API Reference

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Welcome

Use Amazon CloudWatch Observability Access Manager to create and manage links between source accounts and monitoring accounts by using *CloudWatch cross-account observability*. With CloudWatch cross-account observability, you can monitor and troubleshoot applications that span multiple accounts within a Region. Seamlessly search, visualize, and analyze your metrics, logs, traces, Application Signals services and service level objectives (SLOs), Application Insights applications, and internet monitors in any of the linked accounts without account boundaries.

Set up one or more AWS accounts as *monitoring accounts* and link them with multiple *source accounts*. A monitoring account is a central AWS account that can view and interact with observability data generated from source accounts. A source account is an individual AWS account that generates observability data for the resources that reside in it. Source accounts share their observability data with the monitoring account. The shared observability data can include metrics in Amazon CloudWatch, logs in Amazon CloudWatch Logs, traces in AWS X-Ray, Application Signals services and service level objectives (SLOs), applications in Amazon CloudWatch Application Insights, and internet monitors in CloudWatch Internet Monitor.

When you set up a link, you can choose to share the metrics from all namespaces with the monitoring account, or filter to a subset of namespaces. And for CloudWatch Logs, you can choose to share all log groups with the monitoring account, or filter to a subset of log groups.

This document was last published on July 22, 2025.

Actions

The following actions are supported:

- CreateLink
- CreateSink
- DeleteLink
- DeleteSink
- GetLink
- GetSink
- GetSinkPolicy
- ListAttachedLinks
- ListLinks
- ListSinks
- ListTagsForResource
- PutSinkPolicy
- TagResource
- UntagResource
- UpdateLink

CreateLink

Creates a link between a source account and a sink that you have created in a monitoring account. After the link is created, data is sent from the source account to the monitoring account. When you create a link, you can optionally specify filters that specify which metric namespaces and which log groups are shared from the source account to the monitoring account.

Before you create a link, you must create a sink in the monitoring account and create a sink policy in that account. The sink policy must permit the source account to link to it. You can grant permission to source accounts by granting permission to an entire organization or to individual accounts.

For more information, see CreateSink and PutSinkPolicy.

Each monitoring account can be linked to as many as 100,000 source accounts.

Each source account can be linked to as many as five monitoring accounts.

Request Syntax

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

{
   "LabelTemplate": "string",
   "LinkConfiguration": {
      "LogGroupConfiguration": {
         "Filter": "string"
      },
      "MetricConfiguration": {
         "Filter": "string"
      }
   },
   "ResourceTypes": [ "string" ],
   "SinkIdentifier": "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.

LabelTemplate

Specify a friendly human-readable name to use to identify this source account when you are viewing data from it in the monitoring account.

You can use a custom label or use the following variables:

- `$AccountName` is the name of the account
- `$AccountEmail` is the globally unique email address of the account
- `$AccountEmailNoDomain` is the email address of the account without the domain name

> **Note**
>
> In the AWS GovCloud (US-East) and AWS GovCloud (US-West) Regions, the only supported option is to use custom labels, and the `$AccountName`, `$AccountEmail`, and `$AccountEmailNoDomain` variables all resolve as *account-id* instead of the specified variable.

Type: String

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

Required: Yes

LinkConfiguration

Use this structure to optionally create filters that specify that only some metric namespaces or log groups are to be shared from the source account to the monitoring account.

Type: LinkConfiguration object

Required: No

ResourceTypes

An array of strings that define which types of data that the source account shares with the monitoring account.

Type: Array of strings

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

Valid Values: `AWS::CloudWatch::Metric | AWS::Logs::LogGroup | AWS::XRay::Trace | AWS::ApplicationInsights::Application | AWS::InternetMonitor::Monitor | AWS::ApplicationSignals::Service | AWS::ApplicationSignals::ServiceLevelObjective`

Required: Yes

SinkIdentifier

The ARN of the sink to use to create this link. You can use ListSinks to find the ARNs of sinks.

For more information about sinks, see CreateSink.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

Tags

Assigns one or more tags (key-value pairs) to the link.

Tags can help you organize and categorize your resources. You can also use them to scope user permissions by granting a user permission to access or change only resources with certain tag values.

For more information about using tags to control access, see Controlling access to Amazon Web Services resources using tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

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

Required: No

Response Syntax

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

{
   "Arn": "string",
   "Id": "string",
   "Label": "string",
   "LabelTemplate": "string",
   "LinkConfiguration": {
      "LogGroupConfiguration": {
         "Filter": "string"
      },
      "MetricConfiguration": {
         "Filter": "string"
      }
   },
   "ResourceTypes": [ "string" ],
   "SinkArn": "string",
   "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.

Arn

The ARN of the link that is newly created.

Type: String

Id

The random ID string that AWS generated as part of the link ARN.

Type: String

Label

The label that you assigned to this link. If the `labelTemplate` includes variables, this field displays the variables resolved to their actual values.

Type: String

LabelTemplate

The exact label template that you specified, with the variables not resolved.

Type: String

LinkConfiguration

This structure includes filters that specify which metric namespaces and which log groups are shared from the source account to the monitoring account.

Type: LinkConfiguration object

ResourceTypes

The resource types supported by this link.

Type: Array of strings

SinkArn

The ARN of the sink that is used for this link.

Type: String

Tags

The tags assigned to the link.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 429

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

CreateSink

Use this to create a *sink* in the current account, so that it can be used as a monitoring account in CloudWatch cross-account observability. A sink is a resource that represents an attachment point in a monitoring account. Source accounts can link to the sink to send observability data.

After you create a sink, you must create a sink policy that allows source accounts to attach to it. For more information, see PutSinkPolicy.

Each account can contain one sink per Region. If you delete a sink, you can then create a new one in that Region.

Request Syntax

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

{
   "Name": "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.

Name

A name for the sink.

Type: String

Pattern: `[a-zA-Z0-9_\.\-]{1,255}`

Required: Yes

Tags

Assigns one or more tags (key-value pairs) to the link.

Tags can help you organize and categorize your resources. You can also use them to scope user permissions by granting a user permission to access or change only resources with certain tag values.

For more information about using tags to control access, see Controlling access to Amazon Web Services resources using tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

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

Required: No

Response Syntax

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

{
   "Arn": "string",
   "Id": "string",
   "Name": "string",
   "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.

Arn

The ARN of the sink that is newly created.

Type: String

Id

The random ID string that AWS generated as part of the sink ARN.

Type: String

Name

The name of the sink.

Type: String

Tags

The tags assigned to the sink.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 429

See Also

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- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteLink

Deletes a link between a monitoring account sink and a source account. You must run this operation in the source account.

Request Syntax

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

{
   "Identifier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Identifier

The ARN of the link to delete.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

DeleteSink

Deletes a sink. You must delete all links to a sink before you can delete that sink.

Request Syntax

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

{
   "Identifier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Identifier

The ARN of the sink to delete.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

GetLink

Returns complete information about one link.

To use this operation, provide the link ARN. To retrieve a list of link ARNs, use ListLinks.

Request Syntax

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

{
   "Identifier": "string",
   "IncludeTags": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Identifier

The ARN of the link to retrieve information for.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

IncludeTags

Specifies whether to include the tags associated with the link in the response.
When `IncludeTags` is set to `true` and the caller has the required permission, `oam:ListTagsForResource`, the API will return the tags for the specified resource. If the caller doesn't have the required permission, `oam:ListTagsForResource`, the API will raise an exception.

The default value is `false`.

Type: Boolean

Required: No

Response Syntax

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

{
   "Arn": "string",
   "Id": "string",
   "Label": "string",
   "LabelTemplate": "string",
   "LinkConfiguration": {
      "LogGroupConfiguration": {
         "Filter": "string"
      },
      "MetricConfiguration": {
         "Filter": "string"
      }
   },
   "ResourceTypes": [ "string" ],
   "SinkArn": "string",
   "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.

Arn

The ARN of the link.

Type: String

Id

The random ID string that AWS generated as part of the link ARN.

Type: String

Label

The label that you assigned to this link, with the variables resolved to their actual values.

Type: String

LabelTemplate

The exact label template that was specified when the link was created, with the template variables not resolved.

Type: String

LinkConfiguration

This structure includes filters that specify which metric namespaces and which log groups are shared from the source account to the monitoring account.

Type: LinkConfiguration object

ResourceTypes

The resource types supported by this link.

Type: Array of strings

SinkArn

The ARN of the sink that is used for this link.

Type: String

Tags

The tags assigned to the link.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

GetSink

Returns complete information about one monitoring account sink.

To use this operation, provide the sink ARN. To retrieve a list of sink ARNs, use ListSinks.

Request Syntax

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

{
   "Identifier": "string",
   "IncludeTags": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Identifier

The ARN of the sink to retrieve information for.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

IncludeTags

Specifies whether to include the tags associated with the sink in the response.
When `IncludeTags` is set to `true` and the caller has the required permission, `oam:ListTagsForResource`, the API will return the tags for the specified resource. If the caller doesn't have the required permission, `oam:ListTagsForResource`, the API will raise an exception.

The default value is `false`.

Type: Boolean

Required: No

Response Syntax

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

{
   "Arn": "string",
   "Id": "string",
   "Name": "string",
   "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.

Arn

The ARN of the sink.

Type: String

Id

The random ID string that AWS generated as part of the sink ARN.

Type: String

Name

The name of the sink.

Type: String

Tags

The tags assigned to the sink.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

GetSinkPolicy

Returns the current sink policy attached to this sink. The sink policy specifies what accounts can attach to this sink as source accounts, and what types of data they can share.

Request Syntax

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

{
   "SinkIdentifier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

SinkIdentifier

The ARN of the sink to retrieve the policy of.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

Response Syntax

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

{
   "Policy": "string",
```

```
    "SinkArn": "string",
    "SinkId": "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.

Policy

The policy that you specified, in JSON format.

Type: String

SinkArn

The ARN of the sink.

Type: String

SinkId

The random ID string that AWS generated as part of the sink ARN.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

ListAttachedLinks

Returns a list of source account links that are linked to this monitoring account sink.

To use this operation, provide the sink ARN. To retrieve a list of sink ARNs, use ListSinks.

To find a list of links for one source account, use ListLinks.

Request Syntax

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

{
   "MaxResults": number,
   "NextToken": "string",
   "SinkIdentifier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults

Limits the number of returned links to the specified number.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

The token for the next set of items to return. You received this token from a previous call.

Type: String

Required: No

SinkIdentifier

The ARN of the sink that you want to retrieve links for.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

Response Syntax

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

{
   "Items": [
      {
         "Label": "string",
         "LinkArn": "string",
         "ResourceTypes": [ "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.

Items

An array of structures that contain the information about the attached links.

Type: Array of ListAttachedLinksItem objects

NextToken

The token to use when requesting the next set of links.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

ListLinks

Use this operation in a source account to return a list of links to monitoring account sinks that this source account has.

To find a list of links for one monitoring account sink, use ListAttachedLinks from within the monitoring account.

Request Syntax

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

{
   "MaxResults": number,
   "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults

Limits the number of returned links to the specified number.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

NextToken

The token for the next set of items to return. You received this token from a previous call.

Type: String

Required: No

Response Syntax

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

{
   "Items": [
      {
         "Arn": "string",
         "Id": "string",
         "Label": "string",
         "ResourceTypes": [ "string" ],
         "SinkArn": "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.

Items

An array of structures that contain the information about the returned links.

Type: Array of ListLinksItem objects

NextToken

The token to use when requesting the next set of links.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

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- 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
- AWS SDK for Ruby V3

ListSinks

Use this operation in a monitoring account to return the list of sinks created in that account.

Request Syntax

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

{
   "MaxResults": number,
   "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults

Limits the number of returned links to the specified number.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token for the next set of items to return. You received this token from a previous call.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "Items": [
      {
         "Arn": "string",
         "Id": "string",
         "Name": "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.

Items

An array of structures that contain the information about the returned sinks.

Type: Array of ListSinksItem objects

NextToken

The token to use when requesting the next set of sinks.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Displays the tags associated with a resource. Both sinks and links support tagging.

Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The ARN of the resource that you want to view tags for.

The ARN format of a sink is `arn:aws:oam:Region:account-id:sink/sink-id`

The ARN format of a link is `arn:aws:oam:Region:account-id:link/link-id`

For more information about ARN format, see CloudWatch Logs resources and operations.

> **Important**
>
> Unlike tagging permissions in other AWS services, to retrieve the list of tags for links or sinks you must have the `oam:RequestTag` permission. The `aws:ReguestTag` permission does not allow you to tag and untag links and sinks.

Pattern: `arn:(\w|-)+:oam:.+:.+:.+.*`

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 list of tags associated with the requested resource.>

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ValidationException

The value of a parameter in the request caused an error.

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

- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

PutSinkPolicy

Creates or updates the resource policy that grants permissions to source accounts to link to the monitoring account sink. When you create a sink policy, you can grant permissions to all accounts in an organization or to individual accounts.

You can also use a sink policy to limit the types of data that is shared. The six types of services with their respective resource types that you can allow or deny are:

- **Metrics** - Specify with `AWS::CloudWatch::Metric`
- **Log groups** - Specify with `AWS::Logs::LogGroup`
- **Traces** - Specify with `AWS::XRay::Trace`
- **Application Insights - Applications** - Specify with `AWS::ApplicationInsights::Application`
- **Internet Monitor** - Specify with `AWS::InternetMonitor::Monitor`
- **Application Signals** - Specify with `AWS::ApplicationSignals::Service` and `AWS::ApplicationSignals::ServiceLevelObjective`

See the examples in this section to see how to specify permitted source accounts and data types.

Request Syntax

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

{
   "Policy": "string",
   "SinkIdentifier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Policy

The JSON policy to use. If you are updating an existing policy, the entire existing policy is replaced by what you specify here.

The policy must be in JSON string format with quotation marks escaped and no newlines.

For examples of different types of policies, see the **Examples** section on this page.

Type: String

Required: Yes

SinkIdentifier

The ARN of the sink to attach this policy to.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

Response Syntax

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

{
   "Policy": "string",
   "SinkArn": "string",
   "SinkId": "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.

Policy

The policy that you specified.

Type: String

SinkArn

The ARN of the sink.

Type: String

SinkId

The random ID string that AWS generated as part of the sink ARN.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

Examples

Permission for all accounts in an organization

The following example grants permission for all accounts in the organization o-xxxxxxxxxxx to be linked to this sink.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": "{ \"Version\": \"2012-10-17\", \"Statement\": [{ \"Action\":
 [\"oam:CreateLink\", \"oam:UpdateLink\"], \"Effect\": \"Allow\", \"Resource\": \"*\",
 \"Principal\": \"*\", \"Condition\": { \"StringEquals\": { \"aws:PrincipalOrgID\":
 \"o-xxxxxxxxxxx\" } } }]}" }
```

Permission for individual accounts, allowing all resource types

The following example grants permission for two specified accounts to be linked to this sink.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": "{\"Version\": \"2012-10-17\",  \"Statement\": [{ \"Action\":
 [\"oam:CreateLink\", \"oam:UpdateLink\"], \"Effect\": \"Allow\", \"Resource\": \"*\",
 \"Principal\": { \"AWS\": [\"1111111111111\", \"222222222222\"]} }]  }"}
```

Permission for individual accounts, allowing only metrics and logs to be shared

The following example grants permission for two specified accounts to be linked to this sink. The link allows metrics and logs to be shared, but not traces.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": "{ \"Version\": \"2012-10-17\", \"Statement\": [{ \"Action\":
 [\"oam:CreateLink\", \"oam:UpdateLink\"], \"Effect\": \"Allow\",  \"Resource\": \"*
```

```
\", \"Principal\": { \"AWS\": [\"1111111111111\", \"222222222222\"]}, \"Condition\":
 { \"ForAllValues:StringEquals\": { \"oam:ResourceTypes\": [ \"AWS::CloudWatch::Metric
\", \"AWS::Logs::LogGroup\" ] }  }  }] }"
}
```

Human-readable policy example- not for copying

The following example will not work if used, but is included to show a human-readable version of a sink policy. This is the same policy as the previous example, and grants permission for two specified accounts to be linked to this sink. The link allows metrics and logs to be shared, but not traces.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": {
        "Version": "2012-10-17",
        "Statement": [{
            "Action": ["oam:CreateLink", "oam:UpdateLink"],
            "Effect": "Allow",
            "Resource": "*",
            "Principal": {
                "AWS": ["1111111111111", "222222222222"]
            },
            "Condition": {
                "ForAllValues:StringEquals": {
                    "oam:ResourceTypes": [
                        "AWS::CloudWatch::Metric",
                        "AWS::Logs::LogGroup"
                    ]
                }
            }
        }]
    }
}
```

Permissions for full usage of Application Insights

The following example policy will allow full usage of Application Insights. Full usage requires sharing of logs, metrics, traces, and application insights applications.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": {
        "Version": "2012-10-17",
        "Statement": [{
            "Action": ["oam:CreateLink", "oam:UpdateLink"],
            "Effect": "Allow",
            "Resource": "*",
            "Principal": {
                "AWS": ["1111111111111", "222222222222"]
            },
            "Condition": {
                "ForAllValues:StringEquals": {
                    "oam:ResourceTypes": [
                        "AWS::CloudWatch::Metric",
                        "AWS::Logs::LogGroup",
                        "AWS::XRay::Trace",
                        "AWS::ApplicationInsights::Application"
                    ]
                }
            }
        }]
    }
}
```

Permissions for full usage of Internet Monitor

The following example policy will allow full usage of Internet Monitor. Full usage requires sharing of logs, metrics, and internet monitors.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": {
        "Version": "2012-10-17",
        "Statement": [{
            "Action": ["oam:CreateLink", "oam:UpdateLink"],
            "Effect": "Allow",
```

```
            "Resource": "*",
            "Principal": {
                "AWS": ["1111111111111", "222222222222"]
            },
            "Condition": {
                "ForAllValues:StringEquals": {
                    "oam:ResourceTypes": [
                        "AWS::CloudWatch::Metric",
                        "AWS::Logs::LogGroup",
                        "AWS::InternetMonitor::Monitor"
                    ]
                }
            }
        }]
    }
}
```

Permissions for full usage of Application Signals

The following example policy will allow full usage of Application Signals. Full usage requires sharing of logs, metrics, traces, and Application Signals services and service level objectives.

Sample Request

```
{
    "SinkIdentifier": "arn:aws:oam:us-west-1:111111111111:sink/abcd1234-a123-456a-a12b-
a123b456c789",
    "Policy": {
        "Version": "2012-10-17",
        "Statement": [{
            "Action": ["oam:CreateLink", "oam:UpdateLink"],
            "Effect": "Allow",
            "Resource": "*",
            "Principal": {
                "AWS": ["1111111111111", "222222222222"]
            },
            "Condition": {
                "ForAllValues:StringEquals": {
                    "oam:ResourceTypes": [
                        "AWS::CloudWatch::Metric",
                        "AWS::Logs::LogGroup",
                        "AWS::XRay::Trace",
                        "AWS::ApplicationSignals::Service",
```

```
                        "AWS::ApplicationSignals::ServiceLevelObjective"
                    ]
                }
            }
        }]
    }
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

TagResource

Assigns one or more tags (key-value pairs) to the specified resource. Both sinks and links can be tagged.

Tags can help you organize and categorize your resources. You can also use them to scope user permissions by granting a user permission to access or change only resources with certain tag values.

Tags don't have any semantic meaning to AWS and are interpreted strictly as strings of characters.

You can use the `TagResource` action with a resource that already has tags. If you specify a new tag key for the alarm, this tag is appended to the list of tags associated with the alarm. If you specify a tag key that is already associated with the alarm, the new tag value that you specify replaces the previous value for that tag.

You can associate as many as 50 tags with a resource.

Important

Unlike tagging permissions in other AWS services, to tag or untag links and sinks you must have the `oam:ResourceTag` permission. The `iam:ResourceTag` permission does not allow you to tag and untag links and sinks.

Request Syntax

```
PUT /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 that you're adding tags to.

The ARN format of a sink is `arn:aws:oam:`*`Region`*`:`*`account-id`*`:sink/`*`sink-id`*

The ARN format of a link is `arn:aws:oam:`*`Region`*`:`*`account-id`*`:link/`*`link-id`*

For more information about ARN format, see CloudWatch Logs resources and operations.

Pattern: `arn:(\w|-)+:oam:.+:.+:.+.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

The list of key-value pairs to associate with the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

TooManyTagsException

A resource can have no more than 50 tags.

HTTP Status Code: 400

ValidationException

The value of a parameter in the request caused an error.

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
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

UntagResource

Removes one or more tags from the specified resource.

> **Important**
>
> Unlike tagging permissions in other AWS services, to tag or untag links and sinks you must have the `oam:ResourceTag` permission. The `iam:TagResource` permission does not allow you to tag and untag links and sinks.

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 that you're removing tags from.

The ARN format of a sink is `arn:aws:oam:Region:account-id:sink/sink-id`

The ARN format of a link is `arn:aws:oam:Region:account-id:link/link-id`

For more information about ARN format, see CloudWatch Logs resources and operations.

Pattern: `arn:(\w|-)+:oam:.+:.+:.+.*`

Required: Yes

TagKeys

The list of tag keys to remove from the resource.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ValidationException

The value of a parameter in the request caused an error.

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
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

UpdateLink

Use this operation to change what types of data are shared from a source account to its linked monitoring account sink. You can't change the sink or change the monitoring account with this operation.

When you update a link, you can optionally specify filters that specify which metric namespaces and which log groups are shared from the source account to the monitoring account.

To update the list of tags associated with the sink, use TagResource.

Request Syntax

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

{
   "Identifier": "string",
   "IncludeTags": boolean,
   "LinkConfiguration": {
      "LogGroupConfiguration": {
         "Filter": "string"
      },
      "MetricConfiguration": {
         "Filter": "string"
      }
   },
   "ResourceTypes": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Identifier

The ARN of the link that you want to update.

Type: String

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_:\.\-\/]{0,2047}`

Required: Yes

IncludeTags

Specifies whether to include the tags associated with the link in the response after the update operation. When `IncludeTags` is set to `true` and the caller has the required permission, `oam:ListTagsForResource`, the API will return the tags for the specified resource. If the caller doesn't have the required permission, `oam:ListTagsForResource`, the API will raise an exception.

The default value is `false`.

Type: Boolean

Required: No

LinkConfiguration

Use this structure to filter which metric namespaces and which log groups are to be shared from the source account to the monitoring account.

Type: LinkConfiguration object

Required: No

ResourceTypes

An array of strings that define which types of data that the source account will send to the monitoring account.

Your input here replaces the current set of data types that are shared.

Type: Array of strings

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

Valid Values: `AWS::CloudWatch::Metric | AWS::Logs::LogGroup | AWS::XRay::Trace | AWS::ApplicationInsights::Application | AWS::InternetMonitor::Monitor | AWS::ApplicationSignals::Service | AWS::ApplicationSignals::ServiceLevelObjective`

Required: Yes

Response Syntax

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

{
   "Arn": "string",
   "Id": "string",
   "Label": "string",
   "LabelTemplate": "string",
   "LinkConfiguration": {
      "LogGroupConfiguration": {
         "Filter": "string"
      },
      "MetricConfiguration": {
         "Filter": "string"
      }
   },
   "ResourceTypes": [ "string" ],
   "SinkArn": "string",
   "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.

Arn

The ARN of the link that you have updated.

Type: String

Id

The random ID string that AWS generated as part of the sink ARN.

Type: String

Label

The label assigned to this link, with the variables resolved to their actual values.

Type: String

LabelTemplate

The exact label template that was specified when the link was created, with the template variables not resolved.

Type: String

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

LinkConfiguration

This structure includes filters that specify which metric namespaces and which log groups are shared from the source account to the monitoring account.

Type: LinkConfiguration object

ResourceTypes

The resource types now supported by this link.

Type: Array of strings

SinkArn

The ARN of the sink that is used for this link.

Type: String

Tags

The tags assigned to the link.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceFault

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

InvalidParameterException

A parameter is specified incorrectly.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing from the request.

HTTP Status Code: 400

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- 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
- AWS SDK for Ruby V3

Data Types

The CloudWatch Observability Access Manager 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:

- LinkConfiguration
- ListAttachedLinksItem
- ListLinksItem
- ListSinksItem
- LogGroupConfiguration
- MetricConfiguration

LinkConfiguration

Use this structure to optionally create filters that specify that only some metric namespaces or log groups are to be shared from the source account to the monitoring account.

Contents

LogGroupConfiguration

Use this structure to filter which log groups are to send log events from the source account to the monitoring account.

Type: LogGroupConfiguration object

Required: No

MetricConfiguration

Use this structure to filter which metric namespaces are to be shared from the source account to the monitoring account.

Type: MetricConfiguration 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

ListAttachedLinksItem

A structure that contains information about one link attached to this monitoring account sink.

Contents

Label

The label that was assigned to this link at creation, with the variables resolved to their actual values.

Type: String

Required: No

LinkArn

The ARN of the link.

Type: String

Required: No

ResourceTypes

The resource types supported by this link.

Type: Array of strings

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

ListLinksItem

A structure that contains information about one of this source account's links to a monitoring account.

Contents

Arn

The ARN of the link.

Type: String

Required: No

Id

The random ID string that AWS generated as part of the link ARN.

Type: String

Required: No

Label

The label that was assigned to this link at creation, with the variables resolved to their actual values.

Type: String

Required: No

ResourceTypes

The resource types supported by this link.

Type: Array of strings

Required: No

SinkArn

The ARN of the sink that this link is attached to.

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

ListSinksItem

A structure that contains information about one of this monitoring account's sinks.

Contents

Arn

The ARN of the sink.

Type: String

Required: No

Id

The random ID string that AWS generated as part of the sink ARN.

Type: String

Required: No

Name

The name of the sink.

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

LogGroupConfiguration

This structure contains the `Filter` parameter which you can use to specify which log groups are to share log events from this source account to the monitoring account.

Contents

Filter

Use this field to specify which log groups are to share their log events with the monitoring account. Use the term `LogGroupName` and one or more of the following operands. Use single quotation marks (') around log group names. The matching of log group names is case sensitive. Each filter has a limit of five conditional operands. Conditional operands are `AND` and `OR`.

- `=` and `!=`
- `AND`
- `OR`
- `LIKE` and `NOT LIKE`. These can be used only as prefix searches. Include a `%` at the end of the string that you want to search for and include.
- `IN` and `NOT IN`, using parentheses `( )`

Examples:

- `LogGroupName IN ('This-Log-Group', 'Other-Log-Group')` includes only the log groups with names `This-Log-Group` and `Other-Log-Group`.
- `LogGroupName NOT IN ('Private-Log-Group', 'Private-Log-Group-2')` includes all log groups except the log groups with names `Private-Log-Group` and `Private-Log-Group-2`.
- `LogGroupName LIKE 'aws/lambda/%' OR LogGroupName LIKE 'AWSLogs%'` includes all log groups that have names that start with `aws/lambda/` or `AWSLogs`.

> **Note**
>
> If you are updating a link that uses filters, you can specify `*` as the only value for the `filter` parameter to delete the filter and share all log groups with the monitoring account.

Type: String

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

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

MetricConfiguration

This structure contains the `Filter` parameter which you can use to specify which metric namespaces are to be shared from this source account to the monitoring account.

Contents

Filter

Use this field to specify which metrics are to be shared with the monitoring account. Use the term `Namespace` and one or more of the following operands. Use single quotation marks (') around namespace names. The matching of namespace names is case sensitive. Each filter has a limit of five conditional operands. Conditional operands are `AND` and `OR`.

- `=` and `!=`
- `AND`
- `OR`
- `LIKE` and `NOT LIKE`. These can be used only as prefix searches. Include a `%` at the end of the string that you want to search for and include.
- `IN` and `NOT IN`, using parentheses `( )`

Examples:

- `Namespace NOT LIKE 'AWS/%'` includes only namespaces that don't start with `AWS/`, such as custom namespaces.
- `Namespace IN ('AWS/EC2', 'AWS/ELB', 'AWS/S3')` includes only the metrics in the EC2, Elastic Load Balancing, and Amazon S3 namespaces.
- `Namespace = 'AWS/EC2' OR Namespace NOT LIKE 'AWS/%'` includes only the EC2 namespace and your custom namespaces.

> **Note**
>
> If you are updating a link that uses filters, you can specify `*` as the only value for the `filter` parameter to delete the filter and share all metric namespaces with the monitoring account.

Type: String

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

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*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

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 Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400