



API Reference

Amazon CloudWatch Network Monitor



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Amazon CloudWatch Network Monitor: API Reference

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Table of Contents

Welcome	1
Actions	2
CreateMonitor	3
Request Syntax	3
URI Request Parameters	4
Request Body	4
Response Syntax	5
Response Elements	5
Errors	7
See Also	7
CreateProbe	9
Request Syntax	9
URI Request Parameters	9
Request Body	10
Response Syntax	10
Response Elements	11
Errors	13
See Also	14
DeleteMonitor	16
Request Syntax	16
URI Request Parameters	16
Request Body	16
Response Syntax	16
Response Elements	16
Errors	16
See Also	17
DeleteProbe	19
Request Syntax	19
URI Request Parameters	19
Request Body	19
Response Syntax	19
Response Elements	20
Errors	20
See Also	21

GetMonitor	22
Request Syntax	22
URI Request Parameters	22
Request Body	22
Response Syntax	22
Response Elements	23
Errors	25
See Also	25
GetProbe	27
Request Syntax	27
URI Request Parameters	27
Request Body	27
Response Syntax	27
Response Elements	28
Errors	30
See Also	31
ListMonitors	33
Request Syntax	33
URI Request Parameters	33
Request Body	33
Response Syntax	33
Response Elements	34
Errors	34
See Also	35
ListTagsForResource	36
Request Syntax	36
URI Request Parameters	36
Request Body	36
Response Syntax	36
Response Elements	36
Errors	37
See Also	38
TagResource	39
Request Syntax	39
URI Request Parameters	39
Request Body	39

Response Syntax	40
Response Elements	40
Errors	40
See Also	41
UntagResource	42
Request Syntax	42
URI Request Parameters	42
Request Body	42
Response Syntax	42
Response Elements	43
Errors	43
See Also	44
UpdateMonitor	45
Request Syntax	45
URI Request Parameters	45
Request Body	45
Response Syntax	46
Response Elements	46
Errors	47
See Also	48
UpdateProbe	49
Request Syntax	49
URI Request Parameters	49
Request Body	50
Response Syntax	51
Response Elements	52
Errors	54
See Also	55
Data Types	56
CreateMonitorProbeInput	57
Contents	57
See Also	58
MonitorSummary	59
Contents	59
See Also	60
Probe	61

Contents	61
See Also	64
ProbelInput	65
Contents	65
See Also	66
Common Parameters	67
Common Errors	70

Welcome

Amazon CloudWatch Network Monitor is an AWS active network monitoring service that identifies if a network issues exists within the AWS network or your own company network. Within Network Monitor you'll choose the source VPCs and subnets from the AWS network in which you operate and then you'll choose the destination IP addresses from your on-premises network. From these sources and destinations, Network Monitor creates a monitor containing all the possible source and destination combinations, each of which is called a probe, within a single monitor. These probes then monitor network traffic to help you identify where network issues might be affecting your traffic.

Before you begin, ensure the AWS CLI is configured in the AWS Account where you will create the Network Monitor resource. Network Monitor doesn't support creation on cross-account resources, but you can create a Network Monitor in any subnet belonging to a VPC owned by your Account.

For more information, see [Using Amazon CloudWatch Network Monitor](#) in the *Amazon CloudWatch User Guide*.

This document was last published on July 4, 2024.

Actions

The following actions are supported:

- [CreateMonitor](#)
- [CreateProbe](#)
- [DeleteMonitor](#)
- [DeleteProbe](#)
- [GetMonitor](#)
- [GetProbe](#)
- [ListMonitors](#)
- [ListTagsForResource](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateMonitor](#)
- [UpdateProbe](#)

CreateMonitor

Creates a monitor between a source subnet and destination IP address. Within a monitor you'll create one or more probes that monitor network traffic between your source AWS VPC subnets and your destination IP addresses. Each probe then aggregates and sends metrics to Amazon CloudWatch.

You can also create a monitor with probes using this command. For each probe, you define the following:

- `source`—The subnet IDs where the probes will be created.
- `destination`—The target destination IP address for the probe.
- `destinationPort`—Required only if the protocol is TCP.
- `protocol`—The communication protocol between the source and destination. This will be either TCP or ICMP.
- `packetSize`—The size of the packets. This must be a number between 56 and 8500.
- (Optional) `tags` —Key-value pairs created and assigned to the probe.

Request Syntax

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

{
  "aggregationPeriod": number,
  "clientToken": "string",
  "monitorName": "string",
  "probes": [
    {
      "destination": "string",
      "destinationPort": number,
      "packetSize": number,
      "probeTags": {
        "string" : "string"
      },
      "protocol": "string",
      "sourceArn": "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.

aggregationPeriod

The time, in seconds, that metrics are aggregated and sent to Amazon CloudWatch. Valid values are either 30 or 60. 60 is the default if no period is chosen.

Type: Long

Valid Range: Minimum value of 30.

Required: No

clientToken

Unique, case-sensitive identifier to ensure the idempotency of the request. Only returned if a client token was provided in the request.

Type: String

Required: No

monitorName

The name identifying the monitor. It can contain only letters, underscores (_), or dashes (-), and can be up to 200 characters.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

probes

Displays a list of all of the probes created for a monitor.

Type: Array of [CreateMonitorProbeInput](#) objects

Required: No

tags

The list of key-value pairs created and assigned to the monitor.

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.

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

Required: No

Response Syntax

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

```
{
  "aggregationPeriod": number,
  "monitorArn": "string",
  "monitorName": "string",
  "state": "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.

aggregationPeriod

The number of seconds that metrics are aggregated by and sent to Amazon CloudWatch. This will be either 30 or 60.

Type: Long

Valid Range: Minimum value of 30.

monitorArn

The ARN of the monitor.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 512.

Pattern: arn:.*

monitorName

The name of the monitor.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9_-]+

state

The state of the monitor.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING

tags

The list of key-value pairs assigned to the monitor.

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.

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

This operation attempted to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

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

HTTP Status Code: 500

ServiceQuotaExceededException

This request exceeds a service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

CreateProbe

Create a probe within a monitor. Once you create a probe, and it begins monitoring your network traffic, you'll incur billing charges for that probe. This action requires the `monitorName` parameter. Run `ListMonitors` to get a list of monitor names. Note the name of the `monitorName` you want to create the probe for.

Request Syntax

```
POST /monitors/monitorName/probes HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "probe": {
    "destination": "string",
    "destinationPort": number,
    "packetSize": number,
    "protocol": "string",
    "sourceArn": "string",
    "tags": {
      "string" : "string"
    }
  },
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor to associated with the probe.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure the idempotency of the request. Only returned if a client token was provided in the request.

Type: String

Required: No

probe

Describes the details of an individual probe for a monitor.

Type: [ProbeInput](#) object

Required: Yes

tags

The list of key-value pairs created and assigned to the probe.

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.

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

Required: No

Response Syntax

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

{
  "addressFamily": "string",
  "createdAt": number,
  "destination": "string",
```



```
"destinationPort": number,
"modifiedAt": number,
"packetSize": number,
"probeArn": "string",
"probeId": "string",
"protocol": "string",
"sourceArn": "string",
"state": "string",
"tags": {
  "string" : "string"
},
"vpcId": "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.

addressFamily

Indicates whether the IP address is IPV4 or IPV6.

Type: String

Valid Values: IPV4 | IPV6

createdAt

The time and date that the probe was created.

Type: Timestamp

destination

The destination IP address for the monitor. This must be either an IPv4 or IPv6 address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

destinationPort

The port associated with the destination. This is required only if the protocol is TCP and must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

modifiedAt

The time and date when the probe was last modified.

Type: Timestamp

packetSize

The size of the packets sent between the source and destination. This must be a number between 56 and 8500.

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

probeArn

The ARN of the probe.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.*

probeId

The ID of the probe for which details are returned.

Type: String

Pattern: probe-[a-z0-9A-Z-]{21,64}

protocol

The protocol used for the network traffic between the source and destination. This must be either TCP or ICMP.

Type: String

Valid Values: TCP | ICMP

sourceArn

The ARN of the probe.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

state

The state of the probe.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING | DELETED

tags

The list of key-value pairs assigned to the probe.

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.

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

vpclId

The ID of the source VPC or subnet.

Type: String

Pattern: `vpc-[a-zA-Z0-9]{8,32}`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

This request exceeds a service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

DeleteMonitor

Deletes a specified monitor.

This action requires the `monitorName` parameter. Run `ListMonitors` to get a list of monitor names.

Request Syntax

```
DELETE /monitors/monitorName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor to delete.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

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](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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](#)
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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 PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteProbe

Deletes the specified probe. Once a probe is deleted you'll no longer incur any billing fees for that probe.

This action requires both the `monitorName` and `probeId` parameters. Run `ListMonitors` to get a list of monitor names. Run `GetMonitor` to get a list of probes and probe IDs. You can only delete a single probe at a time using this action.

Request Syntax

```
DELETE /monitors/monitorName/probes/probeId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor to delete.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

probeId

The ID of the probe to delete.

Pattern: `probe-[a-z0-9A-Z-]{21,64}`

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](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

This request exceeds a service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

GetMonitor

Returns details about a specific monitor.

This action requires the `monitorName` parameter. Run `ListMonitors` to get a list of monitor names.

Request Syntax

```
GET /monitors/monitorName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor that details are returned for.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "aggregationPeriod": number,
  "createdAt": number,
  "modifiedAt": number,
  "monitorArn": "string",
  "monitorName": "string",
```

```
"probes": [  
  {  
    "addressFamily": "string",  
    "createdAt": number,  
    "destination": "string",  
    "destinationPort": number,  
    "modifiedAt": number,  
    "packetSize": number,  
    "probeArn": "string",  
    "probeId": "string",  
    "protocol": "string",  
    "sourceArn": "string",  
    "state": "string",  
    "tags": {  
      "string" : "string"  
    },  
    "vpcId": "string"  
  }  
],  
"state": "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.

aggregationPeriod

The aggregation period for the specified monitor.

Type: Long

Valid Range: Minimum value of 30.

createdAt

The time and date when the monitor was created.

Type: Timestamp

modifiedAt

The time and date when the monitor was last modified.

Type: Timestamp

monitorArn

The ARN of the selected monitor.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 512.

Pattern: arn:.*

monitorName

The name of the monitor.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9_-]+

probes

The details about each probe associated with that monitor.

Type: Array of [Probe](#) objects

state

Lists the status of the state of each monitor.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING

tags

The list of key-value pairs assigned to the monitor.

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.

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

GetProbe

Returns the details about a probe. This action requires both the `monitorName` and `probeId` parameters. Run `ListMonitors` to get a list of monitor names. Run `GetMonitor` to get a list of probes and probe IDs.

Request Syntax

```
GET /monitors/monitorName/probes/probeId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor associated with the probe. Run `ListMonitors` to get a list of monitor names.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

probeId

The ID of the probe to get information about. Run `GetMonitor` action to get a list of probes and probe IDs for the monitor.

Pattern: `probe-[a-z0-9A-Z-]{21,64}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "addressFamily": "string",
  "createdAt": number,
  "destination": "string",
  "destinationPort": number,
  "modifiedAt": number,
  "packetSize": number,
  "probeArn": "string",
  "probeId": "string",
  "protocol": "string",
  "sourceArn": "string",
  "state": "string",
  "tags": {
    "string" : "string"
  },
  "vpcId": "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.

addressFamily

Indicates whether the IP address is IPV4 or IPV6.

Type: String

Valid Values: IPV4 | IPV6

createdAt

The time and date that the probe was created.

Type: Timestamp

destination

The destination IP address for the monitor. This must be either an IPv4 or IPv6 address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

destinationPort

The port associated with the destination. This is required only if the protocol is TCP and must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

modifiedAt

The time and date that the probe was last modified.

Type: Timestamp

packetSize

The size of the packets sent between the source and destination. This must be a number between 56 and 8500.

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

probeArn

The ARN of the probe.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.*

probeId

The ID of the probe for which details are returned.

Type: String

Pattern: probe-[a-z0-9A-Z-]{21,64}

protocol

The protocol used for the network traffic between the source and destination. This must be either TCP or ICMP.

Type: String

Valid Values: TCP | ICMP

sourceArn

The ARN of the probe.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.*

state

The state of the probe.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING | DELETED

tags

The list of key-value pairs assigned to the probe.

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.

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

vpId

The ID of the source VPC or subnet.

Type: String

Pattern: vpc-[a-zA-Z0-9]{8,32}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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 PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMonitors

Returns a list of all of your monitors.

Request Syntax

```
GET /monitors?maxResults=maxResults&nextToken=nextToken&state=state HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

If `MaxResults` is given a value larger than 100, only 100 results are returned.

Valid Range: Minimum value of 1. Maximum value of 25.

nextToken

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 4096.

state

The list of all monitors and their states.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "monitors": [
```

```
{
  "aggregationPeriod": number,
  "monitorArn": "string",
  "monitorName": "string",
  "state": "string",
  "tags": {
    "string" : "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.

monitors

Lists individual details about each of your monitors.

Type: Array of [MonitorSummary](#) objects

nextToken

The token for the next page of results.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

ListTagsForResource

Lists the tags assigned to this resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

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

Lists the tags assigned 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.

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

This operation attempted to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

TagResource

Adds key-value pairs to a monitor or probe.

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 monitor or probe to tag.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The list of key-value pairs assigned to the monitor or probe.

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.

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](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

This operation attempted to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

UntagResource

Removes a key-value pair from a monitor or probe.

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 monitor or probe that the tag should be removed from.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

tagKeys

The key-value pa

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

This operation attempted to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

UpdateMonitor

Updates the aggregationPeriod for a monitor. Monitors support an aggregationPeriod of either 30 or 60 seconds. This action requires the monitorName and probeId parameter. Run ListMonitors to get a list of monitor names.

Request Syntax

```
PATCH /monitors/monitorName HTTP/1.1
Content-type: application/json

{
  "aggregationPeriod": number
}
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor to update.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

aggregationPeriod

The aggregation time, in seconds, to change to. This must be either 30 or 60.

Type: Long

Valid Range: Minimum value of 30.

Required: Yes

Response Syntax

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

{
  "aggregationPeriod": number,
  "monitorArn": "string",
  "monitorName": "string",
  "state": "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.

aggregationPeriod

The changed aggregation period.

Type: Long

Valid Range: Minimum value of 30.

monitorArn

The ARN of the monitor that was updated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 512.

Pattern: arn:.*

monitorName

The name of the monitor that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9_-]+

state

The state of the updated monitor.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING

tags

The list of key-value pairs associated with the monitor.

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.

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

This request exceeds a service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

UpdateProbe

Updates a monitor probe. This action requires both the `monitorName` and `probeId` parameters. Run `ListMonitors` to get a list of monitor names. Run `GetMonitor` to get a list of probes and probe IDs.

You can update the following para create a monitor with probes using this command. For each probe, you define the following:

- `state`—The state of the probe.
- `destination`— The target destination IP address for the probe.
- `destinationPort`—Required only if the protocol is TCP.
- `protocol`—The communication protocol between the source and destination. This will be either TCP or ICMP.
- `packetSize`—The size of the packets. This must be a number between 56 and 8500.
- (Optional) `tags` —Key-value pairs created and assigned to the probe.

Request Syntax

```
PATCH /monitors/monitorName/probes/probeId HTTP/1.1
Content-type: application/json
```

```
{
  "destination": "string",
  "destinationPort": number,
  "packetSize": number,
  "protocol": "string",
  "state": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

monitorName

The name of the monitor that the probe was updated for.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

probeId

The ID of the probe to update.

Pattern: `probe-[a-z0-9A-Z-]{21,64}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

destination

The updated IP address for the probe destination. This must be either an IPv4 or IPv6 address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

destinationPort

The updated port for the probe destination. This is required only if the `protocol` is TCP and must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

Required: No

packetSize

The updated packets size for network traffic between the source and destination. This must be a number between 56 and 8500.

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

Required: No

protocol

The updated network protocol for the destination. This can be either TCP or ICMP. If the protocol is TCP, then `port` is also required.

Type: String

Valid Values: TCP | ICMP

Required: No

state

The state of the probe update.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING | DELETED

Required: No

Response Syntax

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

```
{
  "addressFamily": "string",
  "createdAt": number,
  "destination": "string",
  "destinationPort": number,
  "modifiedAt": number,
  "packetSize": number,
  "probeArn": "string",
  "probeId": "string",
  "protocol": "string",
  "sourceArn": "string",
  "state": "string",
  "tags": {
    "string" : "string"
  }
}
```

```
  },  
  "vpcId": "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.

addressFamily

The updated IP address family. This must be either IPV4 or IPV6.

Type: String

Valid Values: IPV4 | IPV6

createdAt

The time and date that the probe was created.

Type: Timestamp

destination

The updated destination IP address for the probe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

destinationPort

The updated destination port. This must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

modifiedAt

The time and date that the probe was last updated.

Type: Timestamp

packetSize

The updated packet size for the probe.

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

probeArn

The updated ARN of the probe.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

probeId

The updated ID of the probe.

Type: String

Pattern: `probe-[a-z0-9A-Z-]{21,64}`

protocol

The updated protocol for the probe.

Type: String

Valid Values: TCP | ICMP

sourceArn

The updated ARN of the source subnet.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

state

The state of the updated probe.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING | DELETED

tags

Update tags for a probe.

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.

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

vpclId

The updated ID of the source VPC subnet ID.

Type: String

Pattern: `vpc-[a-zA-Z0-9]{8,32}`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

This request exceeds a service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling

HTTP Status Code: 429

ValidationException

One of the parameters for the request is not valid.

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

Data Types

The Amazon CloudWatch Network Monitor 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:

- [CreateMonitorProbeInput](#)
- [MonitorSummary](#)
- [Probe](#)
- [ProbeInput](#)

CreateMonitorProbeInput

Creates a monitor probe.

Contents

destination

The destination IP address. This must be either IPV4 or IPV6.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

protocol

The protocol used for the network traffic between the source and destination. This must be either TCP or ICMP.

Type: String

Valid Values: TCP | ICMP

Required: Yes

sourceArn

The ARN of the subnet.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.*

Required: Yes

destinationPort

The port associated with the destination. This is required only if the protocol is TCP and must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

Required: No

packetSize

The size of the packets sent between the source and destination. This must be a number between 56 and 8500.

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

Required: No

probeTags

The list of key-value pairs created and assigned to the monitor.

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.

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

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](#)

MonitorSummary

Displays summary information about a monitor.

Contents

monitorArn

The ARN of the monitor.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 512.

Pattern: `arn:.*`

Required: Yes

monitorName

The name of the monitor.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

state

The state of the monitor.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING

Required: Yes

aggregationPeriod

The time, in seconds, that metrics are collected and sent to Amazon CloudWatch. Valid values are either 30 or 60.

Type: Long

Valid Range: Minimum value of 30.

Required: No

tags

The list of key-value pairs assigned to the monitor.

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.

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

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](#)

Probe

Describes information about a network monitor probe.

Contents

destination

The destination for the probe. This should be either an IPV4 or IPV6.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

protocol

The network protocol for the destination. This can be either TCP or ICMP. If the protocol is TCP, then `port` is also required.

Type: String

Valid Values: TCP | ICMP

Required: Yes

sourceArn

The ARN of the probe source subnet.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

addressFamily

The IPv4 or IPv6 address for the probe.

Type: String

Valid Values: IPV4 | IPV6

Required: No

createdAt

The time and date the probe was created.

Type: Timestamp

Required: No

destinationPort

The destination port for the probe. This is required only if the `protocol` is TCP and must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

Required: No

modifiedAt

The time and date that the probe was last modified.

Type: Timestamp

Required: No

packetSize

The size of the packets traveling between the source and destination. This must be a number between 56 and

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

Required: No

probeArn

The ARN of the probe.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: No

probeId

The ID of the probe.

Type: String

Pattern: `probe-[a-z0-9A-Z-]{21,64}`

Required: No

state

The state of the probe.

Type: String

Valid Values: PENDING | ACTIVE | INACTIVE | ERROR | DELETING | DELETED

Required: No

tags

The list of key-value pairs created and assigned to the probe.

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.

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

Required: No

vpcId

The ID of the source VPC subnet.

Type: String

Pattern: `vpc-[a-zA-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](#)

ProbeInput

Defines a probe when creating a probe or monitor.

Contents

destination

The destination IP address. This must be either IPV4 or IPV6.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

protocol

The protocol used for the network traffic between the source and destination. This must be either TCP or ICMP.

Type: String

Valid Values: TCP | ICMP

Required: Yes

sourceArn

The ARN of the subnet.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.*

Required: Yes

destinationPort

The port associated with the destination. This is required only if the protocol is TCP and must be a number between 1 and 65536.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65536.

Required: No

packetSize

The size of the packets sent between the source and destination. This must be a number between 56 and 8500.

Type: Integer

Valid Range: Minimum value of 56. Maximum value of 8500.

Required: No

tags

The list of key-value pairs created and assigned to the monitor.

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.

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

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](#)

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