
AWS IoT

API Reference



AWS IoT: API Reference

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Welcome

AWS IoT

AWS IoT provides secure, bi-directional communication between Internet-connected devices (such as sensors, actuators, embedded devices, or smart appliances) and the AWS cloud. You can discover your custom IoT-Data endpoint to communicate with, configure rules for data processing and integration with other services, organize resources associated with each device (Registry), configure logging, and create and manage policies and credentials to authenticate devices.

The service endpoints that expose this API are listed in [AWS IoT Core Endpoints and Quotas](#). You must use the endpoint for the region that has the resources you want to access.

The service name used by [AWS Signature Version 4](#) to sign the request is: *execute-api*.

For more information about how AWS IoT works, see the [Developer Guide](#).

For information about how to use the credentials provider for AWS IoT, see [Authorizing Direct Calls to AWS Services](#).

AWS IoT data

AWS IoT data enables secure, bi-directional communication between Internet-connected things (such as sensors, actuators, embedded devices, or smart appliances) and the AWS cloud. It implements a broker for applications and things to publish messages over HTTP (Publish) and retrieve, update, and delete shadows. A shadow is a persistent representation of your things and their state in the AWS cloud.

Find the endpoint address for actions in AWS IoT data by running this CLI command:

```
aws iot describe-endpoint --endpoint-type iot:Data-ATS
```

The service name used by [AWS Signature Version 4](#) to sign requests is: *iotdevicegateway*.

AWS IoT jobs data

AWS IoT Jobs is a service that allows you to define a set of jobs — remote operations that are sent to and executed on one or more devices connected to AWS IoT Core. For example, you can define a job that instructs a set of devices to download and install application or firmware updates, reboot, rotate certificates, or perform remote troubleshooting operations.

Find the endpoint address for actions in the AWS IoT jobs data plane by running this CLI command:

```
aws iot describe-endpoint --endpoint-type iot:Jobs
```

The service name used by [AWS Signature Version 4](#) to sign requests is: *iotLaserThingJobManagerService*.

To create a job, you make a job document which is a description of the remote operations to be performed, and you specify a list of targets that should perform the operations. The targets can be individual things, thing groups or both.

AWS IoT Jobs sends a message to inform the targets that a job is available. The target starts the execution of the job by downloading the job document, performing the operations it specifies, and reporting its progress to AWS IoT Core. The Jobs service provides commands to track the progress of a job on a specific target and for all the targets of the job

AWS IoT Core Device Advisor

AWS IoT Core Device Advisor is a cloud-based, fully managed test capability for validating IoT devices during device software development. Device Advisor provides pre-built tests that you can use to validate IoT devices for reliable and secure connectivity with AWS IoT Core before deploying devices to production. By using Device Advisor, you can confirm that your devices can connect to AWS IoT Core, follow security best practices and, if applicable, receive software updates from IoT Device Management. You can also download signed qualification reports to submit to the AWS Partner Network to get your device qualified for the AWS Partner Device Catalog without the need to send your device in and wait for it to be tested.

AWS IoT Fleet Hub

With Fleet Hub for AWS IoT Device Management you can build stand-alone web applications for monitoring the health of your device fleets.

AWS IoT Secure Tunneling

AWS IoT Secure Tunneling creates remote connections to devices deployed in the field.

For more information about how AWS IoT Secure Tunneling works, see [AWS IoT Secure Tunneling](#).

Actions

The following actions are supported by AWS IoT:

- [AcceptCertificateTransfer \(p. 15\)](#)
- [AddThingToBillingGroup \(p. 17\)](#)
- [AddThingToThingGroup \(p. 20\)](#)
- [AssociateTargetsWithJob \(p. 23\)](#)
- [AttachPolicy \(p. 26\)](#)
- [AttachPrincipalPolicy \(p. 28\)](#)
- [AttachSecurityProfile \(p. 30\)](#)
- [AttachThingPrincipal \(p. 32\)](#)
- [CancelAuditMitigationActionsTask \(p. 34\)](#)
- [CancelAuditTask \(p. 36\)](#)
- [CancelCertificateTransfer \(p. 38\)](#)
- [CancelDetectMitigationActionsTask \(p. 40\)](#)
- [CancelJob \(p. 42\)](#)
- [CancelJobExecution \(p. 45\)](#)
- [ClearDefaultAuthorizer \(p. 48\)](#)
- [ConfirmTopicRuleDestination \(p. 50\)](#)
- [CreateAuditSuppression \(p. 52\)](#)
- [CreateAuthorizer \(p. 55\)](#)
- [CreateBillingGroup \(p. 59\)](#)
- [CreateCertificateFromCsr \(p. 62\)](#)
- [CreateCustomMetric \(p. 65\)](#)
- [CreateDimension \(p. 68\)](#)
- [CreateDomainConfiguration \(p. 71\)](#)
- [CreateDynamicThingGroup \(p. 75\)](#)
- [CreateFleetMetric \(p. 79\)](#)
- [CreateJob \(p. 84\)](#)
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- [CreateKeysAndCertificate \(p. 95\)](#)
- [CreateMitigationAction \(p. 98\)](#)
- [CreateOTAUpdate \(p. 101\)](#)
- [CreatePolicy \(p. 107\)](#)
- [CreatePolicyVersion \(p. 110\)](#)
- [CreateProvisioningClaim \(p. 113\)](#)
- [CreateProvisioningTemplate \(p. 116\)](#)
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- [CreateRoleAlias \(p. 123\)](#)
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- [ValidateSecurityProfileBehaviors \(p. 688\)](#)

AcceptCertificateTransfer

Service: AWS IoT

Accepts a pending certificate transfer. The default state of the certificate is INACTIVE.

To check for pending certificate transfers, call [ListCertificates \(p. 414\)](#) to enumerate your certificates.

Requires permission to access the [AcceptCertificateTransfer](#) action.

Request Syntax

```
PATCH /accept-certificate-transfer/certificateId?setAsActive=setAsActive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

certificateId (p. 15)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

setAsActive (p. 15)

Specifies whether the certificate is active.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

TransferAlreadyCompletedException

You can't revert the certificate transfer because the transfer is already complete.

HTTP Status Code: 410

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

AddThingToBillingGroup

Service: AWS IoT

Adds a thing to a billing group.

Requires permission to access the [AddThingToBillingGroup](#) action.

Request Syntax

```
PUT /billing-groups/addThingToBillingGroup HTTP/1.1
Content-type: application/json

{
  "billingGroupArn": "string",
  "billingGroupName": "string",
  "thingArn": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[billingGroupArn](#) (p. 17)

The ARN of the billing group.

Type: String

Required: No

[billingGroupName](#) (p. 17)

The name of the billing group.

Note

This call is asynchronous. It might take several seconds for the detachment to propagate.

Type: String

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

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

Required: No

[thingArn](#) (p. 17)

The ARN of the thing to be added to the billing group.

Type: String

Required: No

[thingName](#) (p. 17)

The name of the thing to be added to the billing group.

Type: String

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

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

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

AddThingToThingGroup

Service: AWS IoT

Adds a thing to a thing group.

Requires permission to access the [AddThingToThingGroup](#) action.

Request Syntax

```
PUT /thing-groups/addThingToThingGroup HTTP/1.1
Content-type: application/json

{
  "overrideDynamicGroups": boolean,
  "thingArn": "string",
  "thingGroupArn": "string",
  "thingGroupName": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[overrideDynamicGroups \(p. 20\)](#)

Override dynamic thing groups with static thing groups when 10-group limit is reached. If a thing belongs to 10 thing groups, and one or more of those groups are dynamic thing groups, adding a thing to a static group removes the thing from the last dynamic group.

Type: Boolean

Required: No

[thingArn \(p. 20\)](#)

The ARN of the thing to add to a group.

Type: String

Required: No

[thingGroupArn \(p. 20\)](#)

The ARN of the group to which you are adding a thing.

Type: String

Required: No

[thingGroupName \(p. 20\)](#)

The name of the group to which you are adding a thing.

Type: String

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

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

Required: No

[thingName \(p. 20\)](#)

The name of the thing to add to a group.

Type: String

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

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

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)

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

AssociateTargetsWithJob

Service: AWS IoT

Associates a group with a continuous job. The following criteria must be met:

- The job must have been created with the targetSelection field set to "CONTINUOUS".
- The job status must currently be "IN_PROGRESS".
- The total number of targets associated with a job must not exceed 100.

Requires permission to access the [AssociateTargetsWithJob](#) action.

Request Syntax

```
POST /jobs/jobId/targets?namespaceId=namespaceId HTTP/1.1
Content-type: application/json

{
  "comment": "string",
  "targets": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[jobId](#) (p. 23)

The unique identifier you assigned to this job when it was created.

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

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

Required: Yes

[namespaceId](#) (p. 23)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is in public preview.

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

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

Request Body

The request accepts the following data in JSON format.

[comment](#) (p. 23)

An optional comment string describing why the job was associated with the targets.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

[targets \(p. 23\)](#)

A list of thing group ARNs that define the targets of the job.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 2048.

Required: Yes

Response Syntax

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

{
  "description": "string",
  "jobArn": "string",
  "jobId": "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.

[description \(p. 24\)](#)

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[jobArn \(p. 24\)](#)

An ARN identifying the job.

Type: String

[jobId \(p. 24\)](#)

The unique identifier you assigned to this job when it was created.

Type: String

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

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

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

AttachPolicy

Service: AWS IoT

Attaches the specified policy to the specified principal (certificate or other credential).

Requires permission to access the [AttachPolicy](#) action.

Request Syntax

```
PUT /target-policies/policyName HTTP/1.1
Content-type: application/json

{
    "target": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

policyName (p. 26)

The name of the policy to attach.

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

Pattern: [\\w+=,.@-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

target (p. 26)

The [identity](#) to which the policy is attached. For example, a thing group or a certificate.

Type: String

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

AttachPrincipalPolicy

Service: AWS IoT

Attaches the specified policy to the specified principal (certificate or other credential).

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [AttachPolicy \(p. 26\)](#) instead.

Requires permission to access the [AttachPrincipalPolicy](#) action.

Request Syntax

```
PUT /principal-policies/policyName HTTP/1.1
x-amzn-iot-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 28\)](#)

The policy name.

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

Pattern: [\w+=,.@-]+

Required: Yes

[principal \(p. 28\)](#)

The principal, which can be a certificate ARN (as returned from the CreateCertificate operation) or an Amazon Cognito ID.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

AttachSecurityProfile

Service: AWS IoT

Associates a Device Defender security profile with a thing group or this account. Each thing group or account can have up to five security profiles associated with it.

Requires permission to access the [AttachSecurityProfile](#) action.

Request Syntax

```
PUT /security-profiles/securityProfileName/targets?  
securityProfileTargetArn=securityProfileTargetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[securityProfileName \(p. 30\)](#)

The security profile that is attached.

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

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

Required: Yes

[securityProfileTargetArn \(p. 30\)](#)

The ARN of the target (thing group) to which the security profile is attached.

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

[InvalidRequestException](#)

The request is not valid.

HTTP Status Code: 400

LimitExceeded

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

AttachThingPrincipal

Service: AWS IoT

Attaches the specified principal to the specified thing. A principal can be X.509 certificates, Amazon Cognito identities or federated identities.

Requires permission to access the [AttachThingPrincipal](#) action.

Request Syntax

```
PUT /things/thingName/principals HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

principal (p. 32)

The principal, which can be a certificate ARN (as returned from the CreateCertificate operation) or an Amazon Cognito ID.

Required: Yes

thingName (p. 32)

The name of the thing.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CancelAuditMitigationActionsTask

Service: AWS IoT

Cancels a mitigation action task that is in progress. If the task is not in progress, an InvalidRequestException occurs.

Requires permission to access the [CancelAuditMitigationActionsTask](#) action.

Request Syntax

```
PUT /audit/mitigationactions/tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 34)

The unique identifier for the task that you want to cancel.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

CancelAuditTask

Service: AWS IoT

Cancels an audit that is in progress. The audit can be either scheduled or on demand. If the audit isn't in progress, an "InvalidRequestException" occurs.

Requires permission to access the [CancelAuditTask](#) action.

Request Syntax

```
PUT /audit/tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 36)

The ID of the audit you want to cancel. You can only cancel an audit that is "IN_PROGRESS".

Length Constraints: Minimum length of 1. Maximum length of 40.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

CancelCertificateTransfer

Service: AWS IoT

Cancels a pending transfer for the specified certificate.

Note Only the transfer source account can use this operation to cancel a transfer. (Transfer destinations can use [RejectCertificateTransfer \(p. 551\)](#) instead.) After transfer, AWS IoT returns the certificate to the source account in the INACTIVE state. After the destination account has accepted the transfer, the transfer cannot be cancelled.

After a certificate transfer is cancelled, the status of the certificate changes from PENDING_TRANSFER to INACTIVE.

Requires permission to access the [CancelCertificateTransfer](#) action.

Request Syntax

```
PATCH /cancel-certificate-transfer/certificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

certificateId (p. 38)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

TransferAlreadyCompletedException

You can't revert the certificate transfer because the transfer is already complete.

HTTP Status Code: 410

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CancelDetectMitigationActionsTask

Service: AWS IoT

Cancels a Device Defender ML Detect mitigation action.

Requires permission to access the [CancelDetectMitigationActionsTask](#) action.

Request Syntax

```
PUT /detect/mitigationactions/tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 40)

The unique identifier of the task.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

CancelJob

Service: AWS IoT

Cancels a job.

Requires permission to access the [CancelJob](#) action.

Request Syntax

```
PUT /jobs/jobId/cancel?force=force HTTP/1.1
Content-type: application/json

{
    "comment": "string",
    "reasonCode": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

force (p. 42)

(Optional) If true job executions with status "IN_PROGRESS" and "QUEUED" are canceled, otherwise only job executions with status "QUEUED" are canceled. The default is false.

Canceling a job which is "IN_PROGRESS", will cause a device which is executing the job to be unable to update the job execution status. Use caution and ensure that each device executing a job which is canceled is able to recover to a valid state.

jobId (p. 42)

The unique identifier you assigned to this job when it was created.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

comment (p. 42)

An optional comment string describing why the job was canceled.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

reasonCode (p. 42)

(Optional)A reason code string that explains why the job was canceled.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\p{Upper}\p{Digit}_]+

Required: No

Response Syntax

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

{
  "description": "string",
  "jobArn": "string",
  "jobId": "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.

[description \(p. 43\)](#)

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[jobArn \(p. 43\)](#)

The job ARN.

Type: String

[jobId \(p. 43\)](#)

The unique identifier you assigned to this job when it was created.

Type: String

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

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

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

CancelJobExecution

Service: AWS IoT

Cancels the execution of a job for a given thing.

Requires permission to access the [CancelJobExecution](#) action.

Request Syntax

```
PUT /things/thingName/jobs/jobId/cancel?force=force HTTP/1.1
Content-type: application/json

{
  "expectedVersion": number,
  "statusDetails": {
    "string": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[force \(p. 45\)](#)

(Optional) If true the job execution will be canceled if it has status IN_PROGRESS or QUEUED, otherwise the job execution will be canceled only if it has status QUEUED. If you attempt to cancel a job execution that is IN_PROGRESS, and you do not set force to true, then an InvalidStateTransitionException will be thrown. The default is false.

Canceling a job execution which is "IN_PROGRESS", will cause the device to be unable to update the job execution status. Use caution and ensure that the device is able to recover to a valid state.

[jobId \(p. 45\)](#)

The ID of the job to be canceled.

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

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

Required: Yes

[thingName \(p. 45\)](#)

The name of the thing whose execution of the job will be canceled.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[expectedVersion \(p. 45\)](#)

(Optional) The expected current version of the job execution. Each time you update the job execution, its version is incremented. If the version of the job execution stored in Jobs does not

match, the update is rejected with a VersionMismatch error, and an ErrorResponse that contains the current job execution status data is returned. (This makes it unnecessary to perform a separate DescribeJobExecution request in order to obtain the job execution status data.)

Type: Long

Required: No

[statusDetails \(p. 45\)](#)

A collection of name/value pairs that describe the status of the job execution. If not specified, the statusDetails are unchanged. You can specify at most 10 name/value pairs.

Type: String to string map

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

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

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

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

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

InvalidStateException

An attempt was made to change to an invalid state, for example by deleting a job or a job execution which is "IN_PROGRESS" without setting the `force` parameter.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

ClearDefaultAuthorizer

Service: AWS IoT

Clears the default authorizer.

Requires permission to access the [ClearDefaultAuthorizer](#) action.

Request Syntax

```
DELETE /default-authorizer HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ConfirmTopicRuleDestination

Service: AWS IoT

Confirms a topic rule destination. When you create a rule requiring a destination, AWS IoT sends a confirmation message to the endpoint or base address you specify. The message includes a token which you pass back when calling `ConfirmTopicRuleDestination` to confirm that you own or have access to the endpoint.

Requires permission to access the [ConfirmTopicRuleDestination](#) action.

Request Syntax

```
GET /confirmdestination/confirmationToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

confirmationToken (p. 50)

The token used to confirm ownership or access to the topic rule confirmation URL.

Length Constraints: Minimum length of 1. Maximum length of 2048.

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

ConflictException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalErrorException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateAuditSuppression

Service: AWS IoT

Creates a Device Defender audit suppression.

Requires permission to access the [CreateAuditSuppression](#) action.

Request Syntax

```
POST /audit/suppressions/create HTTP/1.1
Content-type: application/json

{
  "checkName": "string",
  "clientRequestToken": "string",
  "description": "string",
  "expirationDate": number,
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "suppressIndefinitely": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[checkName](#) (p. 52)

An audit check name. Checks must be enabled for your account. (Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or use [UpdateAccountAuditConfiguration](#) to select which checks are enabled.)

Type: String

Required: Yes

[clientRequestToken](#) (p. 52)

Each audit suppression must have a unique client request token. If you try to create a new audit suppression with the same token as one that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: Yes

[description \(p. 52\)](#)

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

Required: No

[expirationDate \(p. 52\)](#)

The epoch timestamp in seconds at which this suppression expires.

Type: Timestamp

Required: No

[resourceIdentifier \(p. 52\)](#)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: Yes

[suppressIndefinitely \(p. 52\)](#)

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceeded

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExists

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateAuthorizer

Service: AWS IoT

Creates an authorizer.

Requires permission to access the [CreateAuthorizer](#) action.

Request Syntax

```
POST /authorizer/authorizerName HTTP/1.1
Content-type: application/json

{
  "authorizerFunctionArn": "string",
  "enableCachingForHttp": boolean,
  "signingDisabled": boolean,
  "status": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "tokenKeyName": "string",
  "tokenSigningPublicKeys": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName \(p. 55\)](#)

The authorizer name.

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

Pattern: [\w=,@-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[authorizerFunctionArn \(p. 55\)](#)

The ARN of the authorizer's Lambda function.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: [\s\S]*

Required: Yes

[enableCachingForHttp \(p. 55\)](#)

When true, the result from the authorizer's Lambda function is cached for clients that use persistent HTTP connections. The results are cached for the time specified by the Lambda function in refreshAfterInSeconds. This value does not affect authorization of clients that use MQTT connections.

The default value is false.

Type: Boolean

Required: No

[signingDisabled \(p. 55\)](#)

Specifies whether AWS IoT validates the token signature in an authorization request.

Type: Boolean

Required: No

[status \(p. 55\)](#)

The status of the create authorizer request.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

[tags \(p. 55\)](#)

Metadata which can be used to manage the custom authorizer.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[tokenKeyName \(p. 55\)](#)

The name of the token key used to extract the token from the HTTP headers.

Type: String

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

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

Required: No

[tokenSigningPublicKeys \(p. 55\)](#)

The public keys used to verify the digital signature returned by your custom authentication service.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 5120.

Value Pattern: [\s\S]*

Required: No

Response Syntax

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

{
    "authorizerArn": "string",
    "authorizerName": "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.

[authorizerArn \(p. 57\)](#)

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

[authorizerName \(p. 57\)](#)

The authorizer's name.

Type: String

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

Pattern: [\w=,@-]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateBillingGroup

Service: AWS IoT

Creates a billing group.

Requires permission to access the [CreateBillingGroup](#) action.

Request Syntax

```
POST /billing-groups/billingGroupName HTTP/1.1
Content-type: application/json

{
  "billingGroupProperties": {
    "billingGroupDescription": "string"
  },
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName \(p. 59\)](#)

The name you wish to give to the billing group.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[billingGroupProperties \(p. 59\)](#)

The properties of the billing group.

Type: [BillingGroupProperties \(p. 859\)](#) object

Required: No

[tags \(p. 59\)](#)

Metadata which can be used to manage the billing group.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
    "billingGroupArn": "string",
    "billingGroupId": "string",
    "billingGroupName": "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.

billingGroupArn (p. 60)

The ARN of the billing group.

Type: String

billingGroupId (p. 60)

The ID of the billing group.

Type: String

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

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

billingGroupName (p. 60)

The name you gave to the billing group.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateCertificateFromCsr

Service: AWS IoT

Creates an X.509 certificate using the specified certificate signing request.

Note: The CSR must include a public key that is either an RSA key with a length of at least 2048 bits or an ECC key from NIST P-256, NIST P-384, or NIST P-512 curves. For supported certificates, consult [Certificate signing algorithms supported by AWS IoT](#).

Note: Reusing the same certificate signing request (CSR) results in a distinct certificate.

Requires permission to access the [CreateCertificateFromCsr](#) action.

You can create multiple certificates in a batch by creating a directory, copying multiple .csr files into that directory, and then specifying that directory on the command line. The following commands show how to create a batch of certificates given a batch of CSRs.

Assuming a set of CSRs are located inside of the directory my-csr-directory:

On Linux and OS X, the command is:

```
$ ls my-csr-directory/ | xargs -I {} aws iot create-certificate-from-csr --certificate-signing-request file://my-csr-directory/{}
```

This command lists all of the CSRs in my-csr-directory and pipes each CSR file name to the aws iot create-certificate-from-csr AWS CLI command to create a certificate for the corresponding CSR.

The `aws iot create-certificate-from-csr` part of the command can also be run in parallel to speed up the certificate creation process:

```
$ ls my-csr-directory/ | xargs -P 10 -I {} aws iot create-certificate-from-csr --certificate-signing-request-file://my-csr-directory/{}
```

On Windows PowerShell, the command to create certificates for all CSRs in my-csr-directory is:

```
> ls -Name my-csr-directory | %aws iot create-certificate-from-csr --certificate-signing-request file://my-csr-directory/$_
```

On a Windows command prompt, the command to create certificates for all CSRs in my-csr-directory is:

```
> forfiles /p my-csr-directory /c "cmd /c aws iot create-certificate-from-csr --certificate-signing-request file://@path"
```

Request Syntax

```
POST /certificates?setAsActive=setAsActive HTTP/1.1
Content-type: application/json

{
  "certificateSigningRequest": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

setAsActive (p. 62)

Specifies whether the certificate is active.

Request Body

The request accepts the following data in JSON format.

certificateSigningRequest (p. 62)

The certificate signing request (CSR).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [\s\S]*

Required: Yes

Response Syntax

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

{
    "certificateArn": "string",
    "certificateId": "string",
    "certificatePem": "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.

certificateArn (p. 63)

The Amazon Resource Name (ARN) of the certificate. You can use the ARN as a principal for policy operations.

Type: String

certificateId (p. 63)

The ID of the certificate. Certificate management operations only take a certificateId.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

certificatePem (p. 63)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateCustomMetric

Service: AWS IoT

Use this API to define a Custom Metric published by your devices to Device Defender.

Requires permission to access the [CreateCustomMetric](#) action.

Request Syntax

```
POST /custom-metric/metricName HTTP/1.1
Content-type: application/json

{
  "clientRequestToken": "string",
  "displayName": "string",
  "metricType": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[metricName \(p. 65\)](#)

The name of the custom metric. This will be used in the metric report submitted from the device/thing. The name can't begin with aws:. You can't change the name after you define it.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[clientRequestToken \(p. 65\)](#)

Each custom metric must have a unique client request token. If you try to create a new custom metric that already exists with a different token, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: Yes

[displayName \(p. 65\)](#)

The friendly name in the console for the custom metric. This name doesn't have to be unique. Don't use this name as the metric identifier in the device metric report. You can update the friendly name after you define it.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\p{Graph}\x20]*

Required: No

[metricType \(p. 65\)](#)

The type of the custom metric.

Important

The type number only takes a single metric value as an input, but when you submit the metrics value in the DeviceMetrics report, you must pass it as an array with a single value.

Type: String

Valid Values: string-list | ip-address-list | number-list | number

Required: Yes

[tags \(p. 65\)](#)

Metadata that can be used to manage the custom metric.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
  "metricArn": "string",
  "metricName": "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.

[metricArn \(p. 66\)](#)

The Amazon Resource Number (ARN) of the custom metric. For example, arn:aws-partition:iot:region:accountId:custommetric/metricName

Type: String

[metricName \(p. 66\)](#)

The name of the custom metric to be used in the metric report.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateDimension

Service: AWS IoT

Create a dimension that you can use to limit the scope of a metric used in a security profile for AWS IoT Device Defender. For example, using a TOPIC_FILTER dimension, you can narrow down the scope of the metric only to MQTT topics whose name match the pattern specified in the dimension.

Requires permission to access the [CreateDimension](#) action.

Request Syntax

```
POST /dimensions/name HTTP/1.1
Content-type: application/json

{
  "clientRequestToken": "string",
  "stringValues": [ "string" ],
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

name (p. 68)

A unique identifier for the dimension. Choose something that describes the type and value to make it easy to remember what it does.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientRequestToken (p. 68)

Each dimension must have a unique client request token. If you try to create a new dimension with the same token as a dimension that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: Yes

[stringValues \(p. 68\)](#)

Specifies the value or list of values for the dimension. For TOPIC_FILTER dimensions, this is a pattern used to match the MQTT topic (for example, "admin/#").

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

[tags \(p. 68\)](#)

Metadata that can be used to manage the dimension.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[type \(p. 68\)](#)

Specifies the type of dimension. Supported types: TOPIC_FILTER.

Type: String

Valid Values: TOPIC_FILTER

Required: Yes

Response Syntax

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

{
    "arn": "string",
    "name": "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 \(p. 69\)](#)

The Amazon Resource Name (ARN) of the created dimension.

Type: String

[name \(p. 69\)](#)

A unique identifier for the dimension.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateDomainConfiguration

Service: AWS IoT

Creates a domain configuration.

Requires permission to access the [CreateDomainConfiguration](#) action.

Request Syntax

```
POST /domainConfigurations/domainConfigurationName HTTP/1.1
Content-type: application/json

{
  "authorizerConfig": {
    "allowAuthorizerOverride": boolean,
    "defaultAuthorizerName": "string"
  },
  "domainName": "string",
  "serverCertificateArns": [ "string" ],
  "serviceType": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "validationCertificateArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

domainConfigurationName (p. 71)

The name of the domain configuration. This value must be unique to a region.

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

Pattern: [\w.-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

authorizerConfig (p. 71)

An object that specifies the authorization service for a domain.

Type: [AuthorizerConfig \(p. 839\)](#) object

Required: No

domainName (p. 71)

The name of the domain.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: [\s\S]*

Required: No

[serverCertificateArns \(p. 71\)](#)

The ARNs of the certificates that AWS IoT passes to the device during the TLS handshake. Currently you can specify only one certificate ARN. This value is not required for AWS-managed domains.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: arn:aws(-cn|-us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+

Required: No

[serviceType \(p. 71\)](#)

The type of service delivered by the endpoint.

Note

AWS IoT Core currently supports only the DATA service type.

Type: String

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

Required: No

[tags \(p. 71\)](#)

Metadata which can be used to manage the domain configuration.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[validationCertificateArn \(p. 71\)](#)

The certificate used to validate the server certificate and prove domain name ownership. This certificate must be signed by a public certificate authority. This value is not required for AWS-managed domains.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: arn:aws(-cn|-us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+

Required: No

Response Syntax

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

{
    "domainConfigurationArn": "string",
    "domainConfigurationName": "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.

domainConfigurationArn (p. 73)

The ARN of the domain configuration.

Type: String

domainConfigurationName (p. 73)

The name of the domain configuration.

Type: String

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

Pattern: [\w.-]+

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateDynamicThingGroup

Service: AWS IoT

Creates a dynamic thing group.

Requires permission to access the [CreateDynamicThingGroup](#) action.

Request Syntax

```
POST /dynamic-thing-groups/thingGroupName HTTP/1.1
Content-type: application/json

{
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string" : "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

thingGroupName (p. 75)

The dynamic thing group name to create.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

indexName (p. 75)

The dynamic thing group index name.

Note

Currently one index is supported: AWS_Things.

Type: String

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

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

Required: No

[queryString \(p. 75\)](#)

The dynamic thing group search query string.

See [Query Syntax](#) for information about query string syntax.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 75\)](#)

The dynamic thing group query version.

Note

Currently one query version is supported: "2017-09-30". If not specified, the query version defaults to this value.

Type: String

Required: No

[tags \(p. 75\)](#)

Metadata which can be used to manage the dynamic thing group.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[thingGroupProperties \(p. 75\)](#)

The dynamic thing group properties.

Type: [ThingGroupProperties \(p. 1035\)](#) object

Required: No

Response Syntax

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

{
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "thingGroupArn": "string",
  "thingGroupId": "string",
  "thingGroupName": "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.

indexName (p. 76)

The dynamic thing group index name.

Type: String

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

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

queryString (p. 76)

The dynamic thing group search query string.

Type: String

Length Constraints: Minimum length of 1.

queryVersion (p. 76)

The dynamic thing group query version.

Type: String

thingGroupArn (p. 76)

The dynamic thing group ARN.

Type: String

thingGroupId (p. 76)

The dynamic thing group ID.

Type: String

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

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

thingGroupName (p. 76)

The dynamic thing group name.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

CreateFleetMetric

Service: AWS IoT

Creates a fleet metric.

Requires permission to access the [CreateFleetMetric](#) action.

Request Syntax

```
PUT /fleet-metric/metricName HTTP/1.1
Content-type: application/json

{
  "aggregationField": "string",
  "aggregationType": {
    "name": "string",
    "values": [ "string" ]
  },
  "description": "string",
  "indexName": "string",
  "period": number,
  "queryString": "string",
  "queryVersion": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "unit": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

metricName (p. 79)

The name of the fleet metric to create.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

aggregationField (p. 79)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[aggregationType \(p. 79\)](#)

The type of the aggregation query.

Type: [AggregationType \(p. 818\)](#) object

Required: Yes

[description \(p. 79\)](#)

The fleet metric description.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [\p{Graph}\x20]*

Required: No

[indexName \(p. 79\)](#)

The name of the index to search.

Type: String

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

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

Required: No

[period \(p. 79\)](#)

The time in seconds between fleet metric emissions. Range [60(1 min), 86400(1 day)] and must be multiple of 60.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

Required: Yes

[queryString \(p. 79\)](#)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 79\)](#)

The query version.

Type: String

Required: No

[tags \(p. 79\)](#)

Metadata, which can be used to manage the fleet metric.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[unit \(p. 79\)](#)

Used to support unit transformation such as milliseconds to seconds. The unit must be supported by [CW metric](#). Default to null.

Type: String

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second | None

Required: No

Response Syntax

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

{
  "metricArn": "string",
  "metricName": "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.

[metricArn \(p. 81\)](#)

The Amazon Resource Name (ARN) of the new fleet metric.

Type: String

[metricName \(p. 81\)](#)

The name of the fleet metric to create.

Type: String

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

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

Errors

IndexNotReadyException

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)

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

CreateJob

Service: AWS IoT

Creates a job.

Requires permission to access the [CreateJob](#) action.

Request Syntax

```
PUT /jobs/jobId HTTP/1.1
Content-type: application/json

{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "description": "string",
  "document": "string",
  "documentParameters": {
    "string" : "string"
  },
  "documentSource": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    },
    "maximumPerMinute": number
  },
  "jobTemplateArn": "string",
  "namespaceId": "string",
  "presignedUrlConfig": {
    "expiresInSec": number,
    "roleArn": "string"
  },
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "targets": [ "string" ],
  "targetSelection": "string",
  "timeoutConfig": {
```

```
        "inProgressTimeoutInMinutes": number
    }
```

URI Request Parameters

The request uses the following URI parameters.

[jobId \(p. 84\)](#)

A job identifier which must be unique for your AWS account. We recommend using a UUID. Alpha-numeric characters, "-" and "_" are valid for use here.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[abortConfig \(p. 84\)](#)

Allows you to create the criteria to abort a job.

Type: [AbortConfig \(p. 808\)](#) object

Required: No

[description \(p. 84\)](#)

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

[document \(p. 84\)](#)

The job document. Required if you don't specify a value for documentSource.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

[documentParameters \(p. 84\)](#)

Parameters of an AWS managed template that you can specify to create the job document.

Note

documentParameters can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Type: String to string map

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

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

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Value Pattern: [^\p{C}]+

Required: No

[documentSource \(p. 84\)](#)

An S3 link to the job document. Required if you don't specify a value for document.

Note

If the job document resides in an S3 bucket, you must use a placeholder link when specifying the document.

The placeholder link is of the following form:

`${aws:iot:s3-presigned-url:https://s3.amazonaws.com/bucket/key}`
where *bucket* is your bucket name and *key* is the object in the bucket to which you are linking.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

Required: No

[jobExecutionsRetryConfig \(p. 84\)](#)

Allows you to create the criteria to retry a job.

Type: [JobExecutionsRetryConfig \(p. 928\)](#) object

Required: No

[jobExecutionsRolloutConfig \(p. 84\)](#)

Allows you to create a staged rollout of the job.

Type: [JobExecutionsRolloutConfig \(p. 929\)](#) object

Required: No

[jobTemplateArn \(p. 84\)](#)

The ARN of the job template used to create the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

Required: No

[namespaceId \(p. 84\)](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is in public preview.

Type: String

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

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

Required: No

[presignedUrlConfig \(p. 84\)](#)

Configuration information for pre-signed S3 URLs.

Type: [PresignedUrlConfig \(p. 978\)](#) object

Required: No

[tags \(p. 84\)](#)

Metadata which can be used to manage the job.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[targets \(p. 84\)](#)

A list of things and thing groups to which the job should be sent.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 2048.

Required: Yes

[targetSelection \(p. 84\)](#)

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a thing when the thing is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

[timeoutConfig \(p. 84\)](#)

Specifies the amount of time each device has to finish its execution of the job. The timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the time expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig \(p. 1041\)](#) object

Required: No

Response Syntax

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

{
    "description": "string",
    "jobArn": "string",
    "jobId": "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.

[description \(p. 88\)](#)

The job description.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[jobArn \(p. 88\)](#)

The job ARN.

Type: String

[jobId \(p. 88\)](#)

The unique identifier you assigned to this job.

Type: String

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

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

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceeded

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

CreateJobTemplate

Service: AWS IoT

Creates a job template.

Requires permission to access the [CreateJobTemplate](#) action.

Request Syntax

```
PUT /job-templates/jobTemplateId HTTP/1.1
Content-type: application/json

{
  "abortConfig": {
    "criterialist": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "description": "string",
  "document": "string",
  "documentSource": "string",
  "jobArn": "string",
  "jobExecutionsRetryConfig": {
    "criterialist": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    },
    "maximumPerMinute": number
  },
  "presignedUrlConfig": {
    "expiresInSec": number,
    "roleArn": "string"
  },
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "timeoutConfig": {
    "inProgressTimeoutInMinutes": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[jobTemplateId \(p. 90\)](#)

A unique identifier for the job template. We recommend using a UUID. Alpha-numeric characters, "-", and "_" are valid for use here.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[abortConfig \(p. 90\)](#)

The criteria that determine when and how a job abort takes place.

Type: [AbortConfig \(p. 808\)](#) object

Required: No

[description \(p. 90\)](#)

A description of the job document.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: Yes

[document \(p. 90\)](#)

The job document. Required if you don't specify a value for documentSource.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

[documentSource \(p. 90\)](#)

An S3 link to the job document to use in the template. Required if you don't specify a value for document.

Note

If the job document resides in an S3 bucket, you must use a placeholder link when specifying the document.

The placeholder link is of the following form:

`${aws:iot:s3-presigned-url:https://s3.amazonaws.com/bucket/key}`

where *bucket* is your bucket name and *key* is the object in the bucket to which you are linking.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

Required: No

jobArn (p. 90)

The ARN of the job to use as the basis for the job template.

Type: String

Required: No

jobExecutionsRetryConfig (p. 90)

Allows you to create the criteria to retry a job.

Type: [JobExecutionsRetryConfig \(p. 928\)](#) object

Required: No

jobExecutionsRolloutConfig (p. 90)

Allows you to create a staged rollout of a job.

Type: [JobExecutionsRolloutConfig \(p. 929\)](#) object

Required: No

presignedUrlConfig (p. 90)

Configuration for pre-signed S3 URLs.

Type: [PresignedUrlConfig \(p. 978\)](#) object

Required: No

tags (p. 90)

Metadata that can be used to manage the job template.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

timeoutConfig (p. 90)

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig \(p. 1041\)](#) object

Required: No

Response Syntax

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

{
    "jobTemplateArn": "string",
    "jobTemplateId": "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.

jobTemplateArn (p. 92)

The ARN of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

jobTemplateId (p. 92)

The unique identifier of the job template.

Type: String

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

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

Errors

ConflictException

A resource with the same name already exists.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

CreateKeysAndCertificate

Service: AWS IoT

Creates a 2048-bit RSA key pair and issues an X.509 certificate using the issued public key. You can also call CreateKeysAndCertificate over MQTT from a device, for more information, see [Provisioning MQTT API](#).

Note This is the only time AWS IoT issues the private key for this certificate, so it is important to keep it in a secure location.

Requires permission to access the [CreateKeysAndCertificate](#) action.

Request Syntax

```
POST /keys-and-certificate?setAsActive=setAsActive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[setAsActive \(p. 95\)](#)

Specifies whether the certificate is active.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "certificateArn": "string",
    "certificateId": "string",
    "certificatePem": "string",
    "keyPair": {
        "PrivateKey": "string",
        "PublicKey": "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.

[certificateArn \(p. 95\)](#)

The ARN of the certificate.

Type: String

[certificateId \(p. 95\)](#)

The ID of the certificate. AWS IoT issues a default subject name for the certificate (for example, AWS IoT Certificate).

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

[certificatePem \(p. 95\)](#)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

[keyPair \(p. 95\)](#)

The generated key pair.

Type: [KeyPair \(p. 942\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateMitigationAction

Service: AWS IoT

Defines an action that can be applied to audit findings by using StartAuditMitigationActionsTask. Only certain types of mitigation actions can be applied to specific check names. For more information, see [Mitigation actions](#). Each mitigation action can apply only one type of change.

Requires permission to access the [CreateMitigationAction](#) action.

Request Syntax

```
POST /mitigationactions/actions/actionName HTTP/1.1
Content-type: application/json

{
  "actionParams": {
    "addThingsToThingGroupParams": {
      "overrideDynamicGroups": boolean,
      "thingGroupNames": [ "string" ]
    },
    "enableIoTLoggingParams": {
      "logLevel": "string",
      "roleArnForLogging": "string"
    },
    "publishFindingToSnsParams": {
      "topicArn": "string"
    },
    "replaceDefaultPolicyVersionParams": {
      "templateName": "string"
    },
    "updateCACertificateParams": {
      "action": "string"
    },
    "updateDeviceCertificateParams": {
      "action": "string"
    }
  },
  "roleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

actionName (p. 98)

A friendly name for the action. Choose a friendly name that accurately describes the action (for example, EnableLoggingAction).

Length Constraints: Maximum length of 128.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[actionParams \(p. 98\)](#)

Defines the type of action and the parameters for that action.

Type: [MitigationActionParams \(p. 961\)](#) object

Required: Yes

[roleArn \(p. 98\)](#)

The ARN of the IAM role that is used to apply the mitigation action.

Type: String

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

Required: Yes

[tags \(p. 98\)](#)

Metadata that can be used to manage the mitigation action.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
  "actionArn": "string",
  "actionId": "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.

[actionArn \(p. 99\)](#)

The ARN for the new mitigation action.

Type: String

[actionId \(p. 99\)](#)

A unique identifier for the new mitigation action.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateOTAUpdate

Service: AWS IoT

Creates an AWS IoT OTA update on a target group of things or groups.

Requires permission to access the [CreateOTAUpdate](#) action.

Request Syntax

```
POST /otaUpdates/otaUpdateId HTTP/1.1
Content-type: application/json

{
  "additionalParameters": {
    "string" : "string"
  },
  "awsJobAbortConfig": {
    "abortCriteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "awsJobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    },
    "maximumPerMinute": number
  },
  "awsJobPresignedUrlConfig": {
    "expiresInSec": number
  },
  "awsJobTimeoutConfig": {
    "inProgressTimeoutInMinutes": number
  },
  "description": "string",
  "files": [
    {
      "attributes": {
        "string" : "string"
      },
      "codeSigning": {
        "awsSignerJobId": "string",
        "customCodeSigning": {
          "certificateChain": {
            "certificateName": "string",
            "inlineDocument": "string"
          },
          "hashAlgorithm": "string",
          "signature": {
            "inlineDocument": blob
          },
          "signatureAlgorithm": "string"
        },
        "startSigningJobParameter": {
          "string" : "string"
        }
      }
    }
  ]
}
```

```

    "destination": {
        "s3Destination": {
            "bucket": "string",
            "prefix": "string"
        }
    },
    "signingProfileName": "string",
    "signingProfileParameter": {
        "certificateArn": "string",
        "certificatePathOnDevice": "string",
        "platform": "string"
    }
},
"fileLocation": {
    "s3Location": {
        "bucket": "string",
        "key": "string",
        "version": "string"
    },
    "stream": {
        "fileId": number,
        "streamId": "string"
    }
},
"fileName": "string",
"fileType": number,
"fileVersion": "string"
},
],
"protocols": [ "string" ],
"roleArn": "string",
"tags": [
    {
        "Key": "string",
        "Value": "string"
    }
],
"targets": [ "string" ],
"targetSelection": "string"
}
}

```

URI Request Parameters

The request uses the following URI parameters.

otaUpdateId (p. 101)

The ID of the OTA update to be created.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

additionalParameters (p. 101)

A list of additional OTA update parameters which are name-value pairs.

Type: String to string map

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

Value Pattern: [\s\S]*

Required: No

[awsJobAbortConfig \(p. 101\)](#)

The criteria that determine when and how a job abort takes place.

Type: [AwsJobAbortConfig \(p. 844\)](#) object

Required: No

[awsJobExecutionsRolloutConfig \(p. 101\)](#)

Configuration for the rollout of OTA updates.

Type: [AwsJobExecutionsRolloutConfig \(p. 847\)](#) object

Required: No

[awsJobPresignedUrlConfig \(p. 101\)](#)

Configuration information for pre-signed URLs.

Type: [AwsJobPresignedUrlConfig \(p. 849\)](#) object

Required: No

[awsJobTimeoutConfig \(p. 101\)](#)

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [AwsJobTimeoutConfig \(p. 851\)](#) object

Required: No

[description \(p. 101\)](#)

The description of the OTA update.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

[files \(p. 101\)](#)

The files to be streamed by the OTA update.

Type: Array of [OTAUpdateFile \(p. 966\)](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

[protocols \(p. 101\)](#)

The protocol used to transfer the OTA update image. Valid values are [HTTP], [MQTT], [HTTP, MQTT]. When both HTTP and MQTT are specified, the target device can choose the protocol.

Type: Array of strings

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

Valid Values: MQTT | HTTP

Required: No

roleArn (p. 101)

The IAM role that grants AWS IoT Core access to the Amazon S3, AWS IoT jobs and AWS Code Signing resources to create an OTA update job.

Type: String

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

Required: Yes

tags (p. 101)

Metadata which can be used to manage updates.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

targets (p. 101)

The devices targeted to receive OTA updates.

Type: Array of strings

Array Members: Minimum number of 1 item.

Required: Yes

targetSelection (p. 101)

Specifies whether the update will continue to run (CONTINUOUS), or will be complete after all the things specified as targets have completed the update (SNAPSHOT). If continuous, the update may also be run on a thing when a change is detected in a target. For example, an update will run on a thing when the thing is added to a target group, even after the update was completed by all things originally in the group. Valid values: CONTINUOUS | SNAPSHOT.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

Response Syntax

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

{
  "awsIotJobArn": "string",
  "awsIotJobId": "string",
  "otaUpdateArn": "string",
  "otaUpdateId": "string",
  "otaUpdateStatus": "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.

[awsIoTJobArn \(p. 104\)](#)

The AWS IoT job ARN associated with the OTA update.

Type: String

[awsIoTJobId \(p. 104\)](#)

The AWS IoT job ID associated with the OTA update.

Type: String

[otaUpdateArn \(p. 104\)](#)

The OTA update ARN.

Type: String

[otaUpdateId \(p. 104\)](#)

The OTA update ID.

Type: String

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

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

[otaUpdateStatus \(p. 104\)](#)

The OTA update status.

Type: String

Valid Values: CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_COMPLETE | CREATE_FAILED

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreatePolicy

Service: AWS IoT

Creates an AWS IoT policy.

The created policy is the default version for the policy. This operation creates a policy version with a version identifier of **1** and sets **1** as the policy's default version.

Requires permission to access the [CreatePolicy](#) action.

Request Syntax

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

{
  "policyDocument": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 107\)](#)

The policy name.

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

Pattern: [\w+=,.@-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[policyDocument \(p. 107\)](#)

The JSON document that describes the policy. **policyDocument** must have a minimum length of 1, with a maximum length of 2048, excluding whitespace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

Required: Yes

[tags \(p. 107\)](#)

Metadata which can be used to manage the policy.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
  "policyArn": "string",
  "policyDocument": "string",
  "policyName": "string",
  "policyVersionId": "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.

[policyArn \(p. 108\)](#)

The policy ARN.

Type: String

[policyDocument \(p. 108\)](#)

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

[policyName \(p. 108\)](#)

The policy name.

Type: String

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

Pattern: [\w+=,.@-]+

[policyVersionId \(p. 108\)](#)

The policy version ID.

Type: String

Pattern: [0-9]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MalformedPolicyException

The policy documentation is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreatePolicyVersion

Service: AWS IoT

Creates a new version of the specified AWS IoT policy. To update a policy, create a new policy version. A managed policy can have up to five versions. If the policy has five versions, you must use [DeletePolicyVersion \(p. 193\)](#) to delete an existing version before you create a new one.

Optionally, you can set the new version as the policy's default version. The default version is the operative version (that is, the version that is in effect for the certificates to which the policy is attached).

Requires permission to access the [CreatePolicyVersion](#) action.

Request Syntax

```
POST /policies/policyName/version?setAsDefault=setAsDefault HTTP/1.1
Content-type: application/json

{
    "policyDocument": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 110\)](#)

The policy name.

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

Pattern: [\w+=, .@-]+

Required: Yes

[setAsDefault \(p. 110\)](#)

Specifies whether the policy version is set as the default. When this parameter is true, the new policy version becomes the operative version (that is, the version that is in effect for the certificates to which the policy is attached).

Request Body

The request accepts the following data in JSON format.

[policyDocument \(p. 110\)](#)

The JSON document that describes the policy. Minimum length of 1. Maximum length of 2048, excluding whitespace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

Required: Yes

Response Syntax

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

{
    "isDefaultVersion": boolean,
    "policyArn": "string",
    "policyDocument": "string",
    "policyVersionId": "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.

[isDefaultVersion \(p. 111\)](#)

Specifies whether the policy version is the default.

Type: Boolean

[policyArn \(p. 111\)](#)

The policy ARN.

Type: String

[policyDocument \(p. 111\)](#)

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

[policyVersionId \(p. 111\)](#)

The policy version ID.

Type: String

Pattern: [0-9]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MalformedPolicyException

The policy documentation is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionsLimitExceededException

The number of policy versions exceeds the limit.

HTTP Status Code: 409

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

CreateProvisioningClaim

Service: AWS IoT

Creates a provisioning claim.

Requires permission to access the [CreateProvisioningClaim](#) action.

Request Syntax

```
POST /provisioning-templates/templateName/provisioning-claim HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[templateName \(p. 113\)](#)

The name of the provisioning template to use.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "certificateId": "string",
  "certificatePem": "string",
  "expiration": number,
  "keyPair": {
    "PrivateKey": "string",
    "PublicKey": "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.

[certificateId \(p. 113\)](#)

The ID of the certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: `(0x)?[a-fA-F0-9]+`
[certificatePem \(p. 113\)](#)

The provisioning claim certificate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`
[expiration \(p. 113\)](#)

The provisioning claim expiration time.

Type: Timestamp

[keyPair \(p. 113\)](#)

The provisioning claim key pair.

Type: [KeyPair \(p. 942\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateProvisioningTemplate

Service: AWS IoT

Creates a provisioning template.

Requires permission to access the [CreateProvisioningTemplate](#) action.

Request Syntax

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

{
  "description": "string",
  "enabled": boolean,
  "preProvisioningHook": {
    "payloadVersion": "string",
    "targetArn": "string"
  },
  "provisioningRoleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "templateBody": "string",
  "templateName": "string",
  "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[description \(p. 116\)](#)

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [^\p{C}]*

Required: No

[enabled \(p. 116\)](#)

True to enable the provisioning template, otherwise false.

Type: Boolean

Required: No

[preProvisioningHook \(p. 116\)](#)

Creates a pre-provisioning hook template. Only supports template of type FLEET_PROVISIONING. For more information about provisioning template types, see [type](#).

Type: [ProvisioningHook \(p. 979\)](#) object

Required: No

[provisioningRoleArn \(p. 116\)](#)

The role ARN for the role associated with the provisioning template. This IoT role grants permission to provision a device.

Type: String

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

Required: Yes

[tags \(p. 116\)](#)

Metadata which can be used to manage the provisioning template.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[templateBody \(p. 116\)](#)

The JSON formatted contents of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\\s\\S]*

Required: Yes

[templateName \(p. 116\)](#)

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

[type \(p. 116\)](#)

The type you define in a provisioning template. You can create a template with only one type. You can't change the template type after its creation. The default value is FLEET_PROVISIONING. For more information about provisioning template, see: [Provisioning template](#).

Type: String

Valid Values: FLEET_PROVISIONING | JITP

Required: No

Response Syntax

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

{
    "defaultVersionId": number,
    "templateArn": "string",
    "templateName": "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.

defaultVersionId (p. 118)

The default version of the provisioning template.

Type: Integer

templateArn (p. 118)

The ARN that identifies the provisioning template.

Type: String

templateName (p. 118)

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateProvisioningTemplateVersion

Service: AWS IoT

Creates a new version of a provisioning template.

Requires permission to access the [CreateProvisioningTemplateVersion](#) action.

Request Syntax

```
POST /provisioning-templates/templateName/versions?setAsDefault=setAsDefault HTTP/1.1
Content-type: application/json

{
    "templateBody": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

setAsDefault (p. 120)

Sets a fleet provision template version as the default version.

templateName (p. 120)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

Request Body

The request accepts the following data in JSON format.

templateBody (p. 120)

The JSON formatted contents of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

Required: Yes

Response Syntax

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

{
```

```
"isDefaultVersion": boolean,  
"templateArn": "string",  
"templateName": "string",  
"versionId": number  
}
```

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.

[isDefaultVersion \(p. 120\)](#)

True if the provisioning template version is the default version, otherwise false.

Type: Boolean

[templateArn \(p. 120\)](#)

The ARN that identifies the provisioning template.

Type: String

[templateName \(p. 120\)](#)

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

[versionId \(p. 120\)](#)

The version of the provisioning template.

Type: Integer

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionsLimitExceededException

The number of policy versions exceeds the limit.

HTTP Status Code: 409

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

CreateRoleAlias

Service: AWS IoT

Creates a role alias.

Requires permission to access the [CreateRoleAlias](#) action.

Request Syntax

```
POST /role-aliases/roleAlias HTTP/1.1
Content-type: application/json

{
  "credentialDurationSeconds": number,
  "roleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[roleAlias \(p. 123\)](#)

The role alias that points to a role ARN. This allows you to change the role without having to update the device.

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

Pattern: [\\w=, @-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[credentialDurationSeconds \(p. 123\)](#)

How long (in seconds) the credentials will be valid. The default value is 3,600 seconds.

This value must be less than or equal to the maximum session duration of the IAM role that the role alias references.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

[roleArn \(p. 123\)](#)

The role ARN.

Type: String

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

Required: Yes

[tags \(p. 123\)](#)

Metadata which can be used to manage the role alias.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
  "roleAlias": "string",
  "roleAliasArn": "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.

[roleAlias \(p. 124\)](#)

The role alias.

Type: String

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

Pattern: [\w=, @-] +

[roleAliasArn \(p. 124\)](#)

The role alias ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateScheduledAudit

Service: AWS IoT

Creates a scheduled audit that is run at a specified time interval.

Requires permission to access the [CreateScheduledAudit](#) action.

Request Syntax

```
POST /audit/scheduledaudits/scheduledAuditName HTTP/1.1
Content-type: application/json

{
  "dayOfMonth": "string",
  "dayOfWeek": "string",
  "frequency": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "targetCheckNames": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[scheduledAuditName \(p. 126\)](#)

The name you want to give to the scheduled audit. (Max. 128 chars)

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[dayOfMonth \(p. 126\)](#)

The day of the month on which the scheduled audit takes place. This can be "1" through "31" or "LAST". This field is required if the "frequency" parameter is set to MONTHLY. If days 29 to 31 are specified, and the month doesn't have that many days, the audit takes place on the LAST day of the month.

Type: String

Pattern: ^([1-9] | [12][0-9] | 3[01])\$ | ^LAST\$

Required: No

[dayOfWeek \(p. 126\)](#)

The day of the week on which the scheduled audit takes place, either SUN, MON, TUE, WED, THU, FRI, or SAT. This field is required if the frequency parameter is set to WEEKLY or BIWEEKLY.

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

Required: No

[frequency \(p. 126\)](#)

How often the scheduled audit takes place, either DAILY, WEEKLY, BIWEEKLY or MONTHLY. The start time of each audit is determined by the system.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

Required: Yes

[tags \(p. 126\)](#)

Metadata that can be used to manage the scheduled audit.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[targetCheckNames \(p. 126\)](#)

Which checks are performed during the scheduled audit. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: Array of strings

Required: Yes

Response Syntax

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

{
    "scheduledAuditArn": "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.

[scheduledAuditArn \(p. 127\)](#)

The ARN of the scheduled audit.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateSecurityProfile

Service: AWS IoT

Creates a Device Defender security profile.

Requires permission to access the [CreateSecurityProfile](#) action.

Request Syntax

```
POST /security-profiles/securityProfileName HTTP/1.1
Content-type: application/json
```

```
{
  "additionalMetricsToRetain": [ "string" ],
  "additionalMetricsToRetainV2": [
    {
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      }
    }
  ],
  "alertTargets": {
    "string" : {
      "alertTargetArn": "string",
      "roleArn": "string"
    }
  },
  "behaviors": [
    {
      "criteria": {
        "comparisonOperator": "string",
        "consecutiveDatapointsToAlarm": number,
        "consecutiveDatapointsToClear": number,
        "durationSeconds": number,
        "mlDetectionConfig": {
          "confidenceLevel": "string"
        },
        "statisticalThreshold": {
          "statistic": "string"
        },
        "value": {
          "cidrs": [ "string" ],
          "count": number,
          "number": number,
          "numbers": [ number ],
          "ports": [ number ],
          "strings": [ "string" ]
        }
      },
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      },
      "name": "string",
      "suppressAlerts": boolean
    }
  ],
  "securityProfileDescription": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

```
        "Key": "string",
        "Value": "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

[securityProfileName \(p. 129\)](#)

The name you are giving to the security profile.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[additionalMetricsToRetain \(p. 129\)](#)

This parameter has been deprecated.

Please use [CreateSecurityProfile:additionalMetricsToRetainV2 \(p. 130\)](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of strings

Required: No

[additionalMetricsToRetainV2 \(p. 129\)](#)

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of [MetricToRetain \(p. 956\)](#) objects

Required: No

[alertTargets \(p. 129\)](#)

Specifies the destinations to which alerts are sent. (Alerts are always sent to the console.) Alerts are generated when a device (thing) violates a behavior.

Type: String to [AlertTarget \(p. 819\)](#) object map

Valid Keys: SNS

Required: No

[behaviors \(p. 129\)](#)

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior \(p. 852\)](#) objects

Array Members: Maximum number of 100 items.

Required: No

[securityProfileDescription \(p. 129\)](#)

A description of the security profile.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

Required: No

[tags \(p. 129\)](#)

Metadata that can be used to manage the security profile.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
  "securityProfileArn": "string",
  "securityProfileName": "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.

[securityProfileArn \(p. 131\)](#)

The ARN of the security profile.

Type: String

[securityProfileName \(p. 131\)](#)

The name you gave to the security profile.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateStream

Service: AWS IoT

Creates a stream for delivering one or more large files in chunks over MQTT. A stream transports data bytes in chunks or blocks packaged as MQTT messages from a source like S3. You can have one or more files associated with a stream.

Requires permission to access the [CreateStream](#) action.

Request Syntax

```
POST /streams/streamId HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "files": [
    {
      "fileId": number,
      "s3Location": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    }
  ],
  "roleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

streamId (p. 133)

The stream ID.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

description (p. 133)

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

[files \(p. 133\)](#)

The files to stream.

Type: Array of [StreamFile \(p. 1017\)](#) objects

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

Required: Yes

[roleArn \(p. 133\)](#)

An IAM role that allows the IoT service principal to access your S3 files.

Type: String

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

Required: Yes

[tags \(p. 133\)](#)

Metadata which can be used to manage streams.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

Response Syntax

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

{
  "description": "string",
  "streamArn": "string",
  "streamId": "string",
  "streamVersion": number
}
```

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.

[description \(p. 134\)](#)

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[streamArn \(p. 134\)](#)

The stream ARN.

Type: String

[streamId \(p. 134\)](#)

The stream ID.

Type: String

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

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

[streamVersion \(p. 134\)](#)

The version of the stream.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateThing

Service: AWS IoT

Creates a thing record in the registry. If this call is made multiple times using the same thing name and configuration, the call will succeed. If this call is made with the same thing name but different configuration a ResourceAlreadyExistsException is thrown.

Note

This is a control plane operation. See [Authorization](#) for information about authorizing control plane actions.

Requires permission to access the [CreateThing](#) action.

Request Syntax

```
POST /things/thingName HTTP/1.1
Content-type: application/json

{
  "attributePayload": {
    "attributes": {
      "string": "string"
    },
    "merge": boolean
  },
  "billingGroupName": "string",
  "thingTypeName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingName \(p. 137\)](#)

The name of the thing to create.

You can't change a thing's name after you create it. To change a thing's name, you must create a new thing, give it the new name, and then delete the old thing.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[attributePayload \(p. 137\)](#)

The attribute payload, which consists of up to three name/value pairs in a JSON document. For example:

```
{"attributes": {"string1": "string2"}}
```

Type: [AttributePayload \(p. 824\)](#) object

Required: No

billingGroupName (p. 137)

The name of the billing group the thing will be added to.

Type: String

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

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

Required: No

thingTypeName (p. 137)

The name of the thing type associated with the new thing.

Type: String

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

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

Required: No

Response Syntax

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

{
    "thingArn": "string",
    "thingId": "string",
    "thingName": "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.

thingArn (p. 138)

The ARN of the new thing.

Type: String

thingId (p. 138)

The thing ID.

Type: String

thingName (p. 138)

The name of the new thing.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateThingGroup

Service: AWS IoT

Create a thing group.

Note

This is a control plane operation. See [Authorization](#) for information about authorizing control plane actions.

Requires permission to access the [CreateThingGroup](#) action.

Request Syntax

```
POST /thing-groups/thingGroupName HTTP/1.1
Content-type: application/json

{
  "parentGroupName": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string" : "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

thingGroupName (p. 140)

The thing group name to create.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

parentGroupName (p. 140)

The name of the parent thing group.

Type: String

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

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

Required: No

[tags \(p. 140\)](#)

Metadata which can be used to manage the thing group.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[thingGroupProperties \(p. 140\)](#)

The thing group properties.

Type: [ThingGroupProperties \(p. 1035\)](#) object

Required: No

Response Syntax

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

{
  "thingGroupArn": "string",
  "thingGroupId": "string",
  "thingGroupName": "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.

[thingGroupArn \(p. 141\)](#)

The thing group ARN.

Type: String

[thingGroupId \(p. 141\)](#)

The thing group ID.

Type: String

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

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

[thingGroupName \(p. 141\)](#)

The thing group name.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

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

CreateThingType

Service: AWS IoT

Creates a new thing type.

Requires permission to access the [CreateThingType](#) action.

Request Syntax

```
POST /thing-types/thingTypeName HTTP/1.1
Content-type: application/json

{
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "thingTypeProperties": {
    "searchableAttributes": [ "string" ],
    "thingTypeDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingTypeName \(p. 143\)](#)

The name of the thing type.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[tags \(p. 143\)](#)

Metadata which can be used to manage the thing type.

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[thingTypeProperties \(p. 143\)](#)

The ThingTypeProperties for the thing type to create. It contains information about the new thing type including a description, and a list of searchable thing attribute names.

Type: [ThingTypeProperties \(p. 1040\)](#) object

Required: No

Response Syntax

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

{
    "thingTypeArn": "string",
    "thingTypeId": "string",
    "thingTypeName": "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.

thingTypeArn (p. 144)

The Amazon Resource Name (ARN) of the thing type.

Type: String

thingTypeId (p. 144)

The thing type ID.

Type: String

thingTypeName (p. 144)

The name of the thing type.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

CreateTopicRule

Service: AWS IoT

Creates a rule. Creating rules is an administrator-level action. Any user who has permission to create rules will be able to access data processed by the rule.

Requires permission to access the [CreateTopicRule](#) action.

Request Syntax

```
POST /rules/ruleName HTTP/1.1
x-amz-tagging: tags
Content-type: application/json

{
  "topicRulePayload": {
    "actions": [
      {
        "cloudwatchAlarm": {
          "alarmName": "string",
          "roleArn": "string",
          "stateReason": "string",
          "stateValue": "string"
        },
        "cloudwatchLogs": {
          "logGroupName": "string",
          "roleArn": "string"
        },
        "cloudwatchMetric": {
          "metricName": "string",
          "metricNamespace": "string",
          "metricTimestamp": "string",
          "metricUnit": "string",
          "metricValue": "string",
          "roleArn": "string"
        },
        "dynamoDB": {
          "hashKeyField": "string",
          "hashKeyType": "string",
          "hashKeyValue": "string",
          "operation": "string",
          "payloadField": "string",
          "rangeKeyField": "string",
          "rangeKeyType": "string",
          "rangeKeyValue": "string",
          "roleArn": "string",
          "tableName": "string"
        },
        "dynamoDBv2": {
          "putItem": {
            "tableName": "string"
          },
          "roleArn": "string"
        },
        "elasticsearch": {
          "endpoint": "string",
          "id": "string",
          "index": "string",
          "roleArn": "string",
          "type": "string"
        },
        "firehose": {
          "batchMode": boolean,

```

```

    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
},
"http": {
    "auth": {
        "sigv4": {
            "roleArn": "string",
            "serviceName": "string",
            "signingRegion": "string"
        }
    },
    "confirmationUrl": "string",
    "headers": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "url": "string"
},
"iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
},
"iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
},
"iotSiteWise": {
    "putAssetPropertyValueEntries": [
        {
            "assetId": "string",
            "entryId": "string",
            "propertyAlias": "string",
            "propertyId": "string",
            "propertyValues": [
                {
                    "quality": "string",
                    "timestamp": {
                        "offsetInNanos": "string",
                        "timeInSeconds": "string"
                    },
                    "value": {
                        "booleanValue": "string",
                        "doubleValue": "string",
                        "integerValue": "string",
                        "stringValue": "string"
                    }
                }
            ]
        }
    ],
    "roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "key": "string",
    "partition": "string",
    "topic": "string"
}
}

```

```

        "topic": "string"
    },
    "kinesis": {
        "partitionKey": "string",
        "roleArn": "string",
        "streamName": "string"
    },
    "lambda": {
        "functionArn": "string"
    },
    "location": {
        "deviceId": "string",
        "latitude": "string",
        "longitude": "string",
        "roleArn": "string",
        "timestamp": {
            "unit": "string",
            "value": "string"
        },
        "trackerName": "string"
    },
    "openSearch": {
        "endpoint": "string",
        "id": "string",
        "index": "string",
        "roleArn": "string",
        "type": "string"
    },
    "republish": {
        "qos": number,
        "roleArn": "string",
        "topic": "string"
    },
    "s3": {
        "bucketName": "string",
        "cannedAcl": "string",
        "key": "string",
        "roleArn": "string"
    },
    "salesforce": {
        "token": "string",
        "url": "string"
    },
    "sns": {
        "messageFormat": "string",
        "roleArn": "string",
        "targetArn": "string"
    },
    "sqS": {
        "queueUrl": "string",
        "roleArn": "string",
        "useBase64": boolean
    },
    "stepFunctions": {
        "executionNamePrefix": "string",
        "roleArn": "string",
        "stateMachineName": "string"
    },
    "timestream": {
        "databaseName": "string",
        "dimensions": [
            {
                "name": "string",
                "value": "string"
            }
        ],
        "region": "string"
    }
}

```

```
        "roleArn": "string",
        "tableName": "string",
        "timestamp": {
            "unit": "string",
            "value": "string"
        }
    }
},
"awsIotSqlVersion": "string",
"description": "string",
"errorAction": {
    "cloudwatchAlarm": {
        "alarmName": "string",
        "roleArn": "string",
        "stateReason": "string",
        "stateValue": "string"
    },
    "cloudwatchLogs": {
        "logGroupName": "string",
        "roleArn": "string"
    },
    "cloudwatchMetric": {
        "metricName": "string",
        "metricNamespace": "string",
        "metricTimestamp": "string",
        "metricUnit": "string",
        "metricValue": "string",
        "roleArn": "string"
    },
    "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payloadField": "string",
        "rangeKeyField": "string",
        "rangeKeyType": "string",
        "rangeKeyValue": "string",
        "roleArn": "string",
        "tableName": "string"
    },
    "dynamoDBv2": {
        "putItem": {
            "tableName": "string"
        },
        "roleArn": "string"
    },
    "elasticsearch": {
        "endpoint": "string",
        "id": "string",
        "index": "string",
        "roleArn": "string",
        "type": "string"
    },
    "firehose": {
        "batchMode": boolean,
        "deliveryStreamName": "string",
        "roleArn": "string",
        "separator": "string"
    },
    "http": {
        "auth": {
            "sigv4": {
                "roleArn": "string",
                "serviceName": "string"
            }
        }
    }
}
```

```

        "signingRegion": "string"
    },
},
"confirmationUrl": "string",
"headers": [
{
    "key": "string",
    "value": "string"
}
],
"url": "string"
},
"iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
},
"iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
},
"iotSiteWise": {
    "putAssetPropertyValueEntries": [
        {
            "assetId": "string",
            "entryId": "string",
            "propertyAlias": "string",
            "propertyId": "string",
            "propertyValues": [
                {
                    "quality": "string",
                    "timestamp": {
                        "offsetInNanos": "string",
                        "timeInSeconds": "string"
                    },
                    "value": {
                        "booleanValue": "string",
                        "doubleValue": "string",
                        "integerValue": "string",
                        "stringValue": "string"
                    }
                }
            ]
        }
    ],
    "roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
}

```

```

},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "qos": number,
    "roleArn": "string",
    "topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",
    "url": "string"
},
"sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
},
"sqs": {
    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
},
"stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
},
"timestream": {
    "databaseName": "string",
    "dimensions": [
        {
            "name": "string",
            "value": "string"
        }
    ],
    "roleArn": "string",
    "tableName": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    }
}
},
"ruleDisabled": boolean,

```

```
        "sql": "string"  
    }  
}
```

URI Request Parameters

The request uses the following URI parameters.

[ruleName \(p. 146\)](#)

The name of the rule.

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

Pattern: ^[a-zA-Z0-9_]+\$

Required: Yes

[tags \(p. 146\)](#)

Metadata which can be used to manage the topic rule.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: --tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Request Body

The request accepts the following data in JSON format.

[topicRulePayload \(p. 146\)](#)

The rule payload.

Type: [TopicRulePayload \(p. 1055\)](#) object

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

[ConflictException](#)

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

SqlParseException

The Rule-SQL expression can't be parsed correctly.

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

CreateTopicRuleDestination

Service: AWS IoT

Creates a topic rule destination. The destination must be confirmed prior to use.

Requires permission to access the [CreateTopicRuleDestination](#) action.

Request Syntax

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

{
  "destinationConfiguration": {
    "httpUrlConfiguration": {
      "confirmationUrl": "string"
    },
    "vpcConfiguration": {
      "roleArn": "string",
      "securityGroups": [ "string" ],
      "subnetIds": [ "string" ],
      "vpcId": "string"
    }
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

destinationConfiguration (p. 154)

The topic rule destination configuration.

Type: [TopicRuleDestinationConfiguration \(p. 1051\)](#) object

Required: Yes

Response Syntax

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

{
  "topicRuleDestination": {
    "arn": "string",
    "createdAt": number,
    "httpUrlProperties": {
      "confirmationUrl": "string"
    },
    "lastUpdatedAt": number,
    "status": "string",
    "statusReason": "string",
    "vpcProperties": {

```

```
        "roleArn": "string",
        "securityGroups": [ "string" ],
        "subnetIds": [ "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.

[topicRuleDestination \(p. 154\)](#)

The topic rule destination.

Type: [TopicRuleDestination \(p. 1049\)](#) object

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

DeleteAccountAuditConfiguration

Service: AWS IoT

Restores the default settings for Device Defender audits for this account. Any configuration data you entered is deleted and all audit checks are reset to disabled.

Requires permission to access the [DeleteAccountAuditConfiguration](#) action.

Request Syntax

```
DELETE /audit/configuration?deleteScheduledAudits=deleteScheduledAudits HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[deleteScheduledAudits \(p. 157\)](#)

If true, all scheduled audits are deleted.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DeleteAuditSuppression

Service: AWS IoT

Deletes a Device Defender audit suppression.

Requires permission to access the [DeleteAuditSuppression](#) action.

Request Syntax

```
POST /audit/suppressions/delete HTTP/1.1
Content-type: application/json

{
  "checkName": "string",
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName (p. 159)

An audit check name. Checks must be enabled for your account. (Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or use [UpdateAccountAuditConfiguration](#) to select which checks are enabled.)

Type: String

Required: Yes

resourceIdentifier (p. 159)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) (p. 992) object

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

DeleteAuthorizer

Service: AWS IoT

Deletes an authorizer.

Requires permission to access the [DeleteAuthorizer](#) action.

Request Syntax

```
DELETE /authorizer/authorizerName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

authorizerName (p. 161)

The name of the authorizer to delete.

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

Pattern: [\w=, @-]+

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

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteBillingGroup

Service: AWS IoT

Deletes the billing group.

Requires permission to access the [DeleteBillingGroup](#) action.

Request Syntax

```
DELETE /billing-groups/billingGroupName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName \(p. 163\)](#)

The name of the billing group.

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

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

Required: Yes

[expectedVersion \(p. 163\)](#)

The expected version of the billing group. If the version of the billing group does not match the expected version specified in the request, the DeleteBillingGroup request is rejected with a [VersionConflictException](#).

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the expectedVersion parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeleteCACertificate

Service: AWS IoT

Deletes a registered CA certificate.

Requires permission to access the [DeleteCACertificate](#) action.

Request Syntax

```
DELETE /cacertificate/caCertificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

caCertificateId (p. 165)

The ID of the certificate to delete. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

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

CertificateStateException

The certificate operation is not allowed.

HTTP Status Code: 406

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteCertificate

Service: AWS IoT

Deletes the specified certificate.

A certificate cannot be deleted if it has a policy or IoT thing attached to it or if its status is set to ACTIVE. To delete a certificate, first use the [DetachPolicy \(p. 323\)](#) action to detach all policies. Next, use the [UpdateCertificate \(p. 627\)](#) action to set the certificate to the INACTIVE status.

Requires permission to access the [DeleteCertificate](#) action.

Request Syntax

```
DELETE /certificates/certificateId?forceDelete=forceDelete HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId \(p. 167\)](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[forceDelete \(p. 167\)](#)

Forces the deletion of a certificate if it is inactive and is not attached to an IoT thing.

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

CertificateStateException

The certificate operation is not allowed.

HTTP Status Code: 406

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteCustomMetric

Service: AWS IoT

Deletes a Device Defender detect custom metric.

Requires permission to access the [DeleteCustomMetric](#) action.

Note

Before you can delete a custom metric, you must first remove the custom metric from all security profiles it's a part of. The security profile associated with the custom metric can be found using the [ListSecurityProfiles](#) API with metricName set to your custom metric name.

Request Syntax

```
DELETE /custom-metric/metricName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metricName (p. 169)

The name of the custom metric.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

DeleteDimension

Service: AWS IoT

Removes the specified dimension from your AWS accounts.

Requires permission to access the [DeleteDimension](#) action.

Request Syntax

```
DELETE /dimensions/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

name (p. 171)

The unique identifier for the dimension that you want to delete.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

DeleteDomainConfiguration

Service: AWS IoT

Deletes the specified domain configuration.

Requires permission to access the [DeleteDomainConfiguration](#) action.

Request Syntax

```
DELETE /domainConfigurations/domainConfigurationName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainConfigurationName (p. 173)

The name of the domain configuration to be deleted.

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

Pattern: [\w.-]+

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteDynamicThingGroup

Service: AWS IoT

Deletes a dynamic thing group.

Requires permission to access the [DeleteDynamicThingGroup](#) action.

Request Syntax

```
DELETE /dynamic-thing-groups/thingGroupName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

expectedVersion (p. 175)

The expected version of the dynamic thing group to delete.

thingGroupName (p. 175)

The name of the dynamic thing group to delete.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeleteFleetMetric

Service: AWS IoT

Deletes the specified fleet metric. Returns successfully with no error if the deletion is successful or you specify a fleet metric that doesn't exist.

Requires permission to access the [DeleteFleetMetric](#) action.

Request Syntax

```
DELETE /fleet-metric/metricName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion \(p. 177\)](#)

The expected version of the fleet metric to delete.

[metricName \(p. 177\)](#)

The name of the fleet metric to delete.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeleteJob

Service: AWS IoT

Deletes a job and its related job executions.

Deleting a job may take time, depending on the number of job executions created for the job and various other factors. While the job is being deleted, the status of the job will be shown as "DELETION_IN_PROGRESS". Attempting to delete or cancel a job whose status is already "DELETION_IN_PROGRESS" will result in an error.

Only 10 jobs may have status "DELETION_IN_PROGRESS" at the same time, or a LimitExceededException will occur.

Requires permission to access the [DeleteJob](#) action.

Request Syntax

```
DELETE /jobs/jobId?force=Force&namespaceId=namespaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[force \(p. 179\)](#)

(Optional) When true, you can delete a job which is "IN_PROGRESS". Otherwise, you can only delete a job which is in a terminal state ("COMPLETED" or "CANCELED") or an exception will occur. The default is false.

Note

Deleting a job which is "IN_PROGRESS", will cause a device which is executing the job to be unable to access job information or update the job execution status. Use caution and ensure that each device executing a job which is deleted is able to recover to a valid state.

[jobId \(p. 179\)](#)

The ID of the job to be deleted.

After a job deletion is completed, you may reuse this jobId when you create a new job. However, this is not recommended, and you must ensure that your devices are not using the jobId to refer to the deleted job.

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

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

Required: Yes

[namespaceId \(p. 179\)](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is in public preview.

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

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

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

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

InvalidStateException

An attempt was made to change to an invalid state, for example by deleting a job or a job execution which is "IN_PROGRESS" without setting the `force` parameter.

HTTP Status Code: 409

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

DeleteJobExecution

Service: AWS IoT

Deletes a job execution.

Requires permission to access the [DeleteJobExecution](#) action.

Request Syntax

```
DELETE /things/thingName/jobs/jobId/executionNumber/executionNumber?  
force=force&namespaceId=namespaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[executionNumber \(p. 182\)](#)

The ID of the job execution to be deleted. The executionNumber refers to the execution of a particular job on a particular device.

Note that once a job execution is deleted, the executionNumber may be reused by IoT, so be sure you get and use the correct value here.

Required: Yes

[force \(p. 182\)](#)

(Optional) When true, you can delete a job execution which is "IN_PROGRESS". Otherwise, you can only delete a job execution which is in a terminal state ("SUCCEEDED", "FAILED", "REJECTED", "REMOVED" or "CANCELED") or an exception will occur. The default is false.

Note

Deleting a job execution which is "IN_PROGRESS", will cause the device to be unable to access job information or update the job execution status. Use caution and ensure that the device is able to recover to a valid state.

[jobId \(p. 182\)](#)

The ID of the job whose execution on a particular device will be deleted.

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

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

Required: Yes

[namespaceId \(p. 182\)](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is in public preview.

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

Pattern: [a-zA-Z0-9_-]+
thingName (p. 182)

The name of the thing whose job execution will be deleted.

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

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

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

InvalidStateException

An attempt was made to change to an invalid state, for example by deleting a job or a job execution which is "IN_PROGRESS" without setting the `force` parameter.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

DeleteJobTemplate

Service: AWS IoT

Deletes the specified job template.

Request Syntax

```
DELETE /job-templates/jobTemplateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobTemplateId (p. 185)

The unique identifier of the job template to delete.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DeleteMitigationAction

Service: AWS IoT

Deletes a defined mitigation action from your AWS accounts.

Requires permission to access the [DeleteMitigationAction](#) action.

Request Syntax

```
DELETE /mitigationactions/actions/actionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actionName (p. 187)

The name of the mitigation action that you want to delete.

Length Constraints: Maximum length of 128.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

DeleteOTAUpdate

Service: AWS IoT

Delete an OTA update.

Requires permission to access the [DeleteOTAUpdate](#) action.

Request Syntax

```
DELETE /otaUpdates/otaUpdateId?  
deleteStream=deleteStream&forceDeleteAWSJob=forceDeleteAWSJob HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[deleteStream \(p. 189\)](#)

When true, the stream created by the OTAUpdate process is deleted when the OTA update is deleted. Ignored if the stream specified in the OTAUpdate is supplied by the user.

[forceDeleteAWSJob \(p. 189\)](#)

When true, deletes the AWS IoT job created by the OTAUpdate process even if it is "IN_PROGRESS". Otherwise, if the job is not in a terminal state ("COMPLETED" or "CANCELED") an exception will occur. The default is false.

[otaUpdateId \(p. 189\)](#)

The ID of the OTA update to delete.

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

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeletePolicy

Service: AWS IoT

Deletes the specified policy.

A policy cannot be deleted if it has non-default versions or it is attached to any certificate.

To delete a policy, use the [DeletePolicyVersion \(p. 193\)](#) action to delete all non-default versions of the policy; use the [DetachPolicy \(p. 323\)](#) action to detach the policy from any certificate; and then use the DeletePolicy action to delete the policy.

When a policy is deleted using DeletePolicy, its default version is deleted with it.

Note

Because of the distributed nature of AWS, it can take up to five minutes after a policy is detached before it's ready to be deleted.

Requires permission to access the [DeletePolicy](#) action.

Request Syntax

```
DELETE /policies/policyName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyName (p. 191)

The name of the policy to delete.

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

Pattern: [\w+=,.@-]+

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

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeletePolicyVersion

Service: AWS IoT

Deletes the specified version of the specified policy. You cannot delete the default version of a policy using this action. To delete the default version of a policy, use [DeletePolicy](#) (p. 191). To find out which version of a policy is marked as the default version, use [ListPolicyVersions](#).

Requires permission to access the [DeletePolicyVersion](#) action.

Request Syntax

```
DELETE /policies/policyName/version/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#) (p. 193)

The name of the policy.

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

Pattern: [\w+=,.@-]+

Required: Yes

[policyVersionId](#) (p. 193)

The policy version ID.

Pattern: [0-9]+

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

[DeleteConflictException](#)

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteProvisioningTemplate

Service: AWS IoT

Deletes a provisioning template.

Requires permission to access the [DeleteProvisioningTemplate](#) action.

Request Syntax

```
DELETE /provisioning-templates/templateName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName (p. 195)

The name of the fleet provision template to delete.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteProvisioningTemplateVersion

Service: AWS IoT

Deletes a provisioning template version.

Requires permission to access the [DeleteProvisioningTemplateVersion](#) action.

Request Syntax

```
DELETE /provisioning-templates/templateName/versions/versionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName (p. 197)

The name of the provisioning template version to delete.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

versionId (p. 197)

The provisioning template version ID to delete.

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteRegistrationCode

Service: AWS IoT

Deletes a CA certificate registration code.

Requires permission to access the [DeleteRegistrationCode](#) action.

Request Syntax

```
DELETE /registrationcode HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteRoleAlias

Service: AWS IoT

Deletes a role alias

Requires permission to access the [DeleteRoleAlias](#) action.

Request Syntax

```
DELETE /role-aliases/roleAlias HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

roleAlias (p. 201)

The role alias to delete.

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

Pattern: [\w=,@-]+

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

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteScheduledAudit

Service: AWS IoT

Deletes a scheduled audit.

Requires permission to access the [DeleteScheduledAudit](#) action.

Request Syntax

```
DELETE /audit/scheduledaudits/scheduledAuditName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scheduledAuditName (p. 203)

The name of the scheduled audit you want to delete.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DeleteSecurityProfile

Service: AWS IoT

Deletes a Device Defender security profile.

Requires permission to access the [DeleteSecurityProfile](#) action.

Request Syntax

```
DELETE /security-profiles/securityProfileName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion \(p. 205\)](#)

The expected version of the security profile. A new version is generated whenever the security profile is updated. If you specify a value that is different from the actual version, a `VersionConflictException` is thrown.

[securityProfileName \(p. 205\)](#)

The name of the security profile to be deleted.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the expectedVersion parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeleteStream

Service: AWS IoT

Deletes a stream.

Requires permission to access the [DeleteStream](#) action.

Request Syntax

```
DELETE /streams/streamId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[streamId \(p. 207\)](#)

The stream ID.

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

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

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteThing

Service: AWS IoT

Deletes the specified thing. Returns successfully with no error if the deletion is successful or you specify a thing that doesn't exist.

Requires permission to access the [DeleteThing](#) action.

Request Syntax

```
DELETE /things/thingName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion \(p. 209\)](#)

The expected version of the thing record in the registry. If the version of the record in the registry does not match the expected version specified in the request, the DeleteThing request is rejected with a `VersionConflictException`.

[thingName \(p. 209\)](#)

The name of the thing to delete.

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

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

[InvalidRequestException](#)

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeleteThingGroup

Service: AWS IoT

Deletes a thing group.

Requires permission to access the [DeleteThingGroup](#) action.

Request Syntax

```
DELETE /thing-groups/thingGroupName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion \(p. 211\)](#)

The expected version of the thing group to delete.

[thingGroupName \(p. 211\)](#)

The name of the thing group to delete.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the expectedVersion parameter does not match the latest version in the system.

HTTP Status Code: 409

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

DeleteThingType

Service: AWS IoT

Deletes the specified thing type. You cannot delete a thing type if it has things associated with it. To delete a thing type, first mark it as deprecated by calling [DeprecateThingType \(p. 221\)](#), then remove any associated things by calling [UpdateThing \(p. 676\)](#) to change the thing type on any associated thing, and finally use [DeleteThingType \(p. 213\)](#) to delete the thing type.

Requires permission to access the [DeleteThingType](#) action.

Request Syntax

```
DELETE /thing-types/thingTypeName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

thingTypeName (p. 213)

The name of the thing type.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteTopicRule

Service: AWS IoT

Deletes the rule.

Requires permission to access the [DeleteTopicRule](#) action.

Request Syntax

```
DELETE /rules/ruleName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName (p. 215)

The name of the rule.

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

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteTopicRuleDestination

Service: AWS IoT

Deletes a topic rule destination.

Requires permission to access the [DeleteTopicRuleDestination](#) action.

Request Syntax

```
DELETE /destinations/arn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

arn (p. 217)

The ARN of the topic rule destination to delete.

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DeleteV2LoggingLevel

Service: AWS IoT

Deletes a logging level.

Requires permission to access the [DeleteV2LoggingLevel](#) action.

Request Syntax

```
DELETE /v2LoggingLevel?targetName=targetName&targetType=targetType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

targetName (p. 219)

The name of the resource for which you are configuring logging.

Required: Yes

targetType (p. 219)

The type of resource for which you are configuring logging. Must be THING_Group.

Valid Values: DEFAULT | THING_GROUP | CLIENT_ID | SOURCE_IP | PRINCIPAL_ID

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

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

DeprecateThingType

Service: AWS IoT

Deprecates a thing type. You can not associate new things with deprecated thing type.

Requires permission to access the [DeprecateThingType](#) action.

Request Syntax

```
POST /thing-types/thingTypeName/deprecate HTTP/1.1
Content-type: application/json

{
    "undoDeprecate": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingTypeName \(p. 221\)](#)

The name of the thing type to deprecate.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[undoDeprecate \(p. 221\)](#)

Whether to undeclare a deprecated thing type. If **true**, the thing type will not be deprecated anymore and you can associate it with things.

Type: Boolean

Required: No

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeAccountAuditConfiguration

Service: AWS IoT

Gets information about the Device Defender audit settings for this account. Settings include how audit notifications are sent and which audit checks are enabled or disabled.

Requires permission to access the [DescribeAccountAuditConfiguration](#) action.

Request Syntax

```
GET /audit/configuration HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "auditCheckConfigurations": {
        "string" : {
            "enabled": boolean
        }
    },
    "auditNotificationTargetConfigurations": {
        "string" : {
            "enabled": boolean,
            "roleArn": "string",
            "targetArn": "string"
        }
    },
    "roleArn": "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.

[auditCheckConfigurations \(p. 223\)](#)

Which audit checks are enabled and disabled for this account.

Type: String to [AuditCheckConfiguration \(p. 825\)](#) object map

[auditNotificationTargetConfigurations \(p. 223\)](#)

Information about the targets to which audit notifications are sent for this account.

Type: String to [AuditNotificationTarget \(p. 834\)](#) object map

Valid Keys: SNS
roleArn (p. 223)

The ARN of the role that grants permission to AWS IoT to access information about your devices, policies, certificates, and other items as required when performing an audit.

On the first call to `UpdateAccountAuditConfiguration`, this parameter is required.

Type: String

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

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

DescribeAuditFinding

Service: AWS IoT

Gets information about a single audit finding. Properties include the reason for noncompliance, the severity of the issue, and the start time when the audit that returned the finding.

Requires permission to access the [DescribeAuditFinding](#) action.

Request Syntax

```
GET /audit/findings/findingId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

findingId (p. 225)

A unique identifier for a single audit finding. You can use this identifier to apply mitigation actions to the finding.

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

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

{
    "finding": {
        "checkName": "string",
        "findingId": "string",
        "findingTime": number,
        "isSuppressed": boolean,
        "nonCompliantResource": {
            "additionalInfo": {
                "string": "string"
            },
            "resourceIdentifier": {
                "account": "string",
                "caCertificateId": "string",
                "clientId": "string",
                "cognitoIdentityPoolId": "string",
                "deviceCertificateArn": "string",
                "deviceCertificateId": "string",
                "iamRoleArn": "string",
                "issuerCertificateIdentifier": {
                    "issuerCertificateSerialNumber": "string",
                    "issuerCertificateSubject": "string"
                }
            }
        }
    }
}
```

```
        "issuerId": "string"
    },
    "policyVersionIdentifier": {
        "policyName": "string",
        "policyVersionId": "string"
    },
    "roleAliasArn": "string"
},
"resourceType": "string"
},
"reasonForNonCompliance": "string",
"reasonForNonComplianceCode": "string",
"relatedResources": [
{
    "additionalInfo": {
        "string" : "string"
    },
    "resourceIdentifier": {
        "account": "string",
        "caCertificateId": "string",
        "clientId": "string",
        "cognitoIdentityPoolId": "string",
        "deviceCertificateArn": "string",
        "deviceCertificateId": "string",
        "iamRoleArn": "string",
        "issuerCertificateIdentifier": {
            "issuerCertificateSerialNumber": "string",
            "issuerCertificateSubject": "string",
            "issuerId": "string"
        },
        "policyVersionIdentifier": {
            "policyName": "string",
            "policyVersionId": "string"
        },
        "roleAliasArn": "string"
    },
    "resourceType": "string"
}
],
"severity": "string",
"taskId": "string",
"taskStartTime": number
}
}
```

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.

finding (p. 225)

The findings (results) of the audit.

Type: [AuditFinding \(p. 828\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeAuditMitigationActionsTask

Service: AWS IoT

Gets information about an audit mitigation task that is used to apply mitigation actions to a set of audit findings. Properties include the actions being applied, the audit checks to which they're being applied, the task status, and aggregated task statistics.

Request Syntax

```
GET /audit/mitigationactions/tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 228)

The unique identifier for the audit mitigation task.

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

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

{
  "actionsDefinition": [
    {
      "actionParams": {
        "addThingsToThingGroupParams": {
          "overrideDynamicGroups": boolean,
          "thingGroupNames": [ "string" ]
        },
        "enableIoTLoggingParams": {
          "logLevel": "string",
          "roleArnForLogging": "string"
        },
        "publishFindingToSnsParams": {
          "topicArn": "string"
        },
        "replaceDefaultPolicyVersionParams": {
          "templateName": "string"
        },
        "updateCACertificateParams": {
          "action": "string"
        },
        "updateDeviceCertificateParams": {
          "action": "string"
        }
      }
    }
  ]
}
```

```
        },
        "id": "string",
        "name": "string",
        "roleArn": "string"
    }
],
"auditCheckToActionsMapping": {
    "string" : [ "string" ]
},
"endTime": number,
"startTime": number,
"target": {
    "auditCheckToReasonCodeFilter": {
        "string" : [ "string" ]
    },
    "auditTaskId": "string",
    "findingIds": [ "string" ]
},
"taskStatistics": {
    "string" : {
        "canceledFindingsCount": number,
        "failedFindingsCount": number,
        "skippedFindingsCount": number,
        "succeededFindingsCount": number,
        "totalFindingsCount": number
    }
},
"taskStatus": "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.

[actionsDefinition \(p. 228\)](#)

Specifies the mitigation actions and their parameters that are applied as part of this task.

Type: Array of [MitigationAction \(p. 959\)](#) objects

[auditCheckToActionsMapping \(p. 228\)](#)

Specifies the mitigation actions that should be applied to specific audit checks.

Type: String to array of strings map

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 128.

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

[endTime \(p. 228\)](#)

The date and time when the task was completed or canceled.

Type: Timestamp

[startTime \(p. 228\)](#)

The date and time when the task was started.

Type: Timestamp

[target \(p. 228\)](#)

Identifies the findings to which the mitigation actions are applied. This can be by audit checks, by audit task, or a set of findings.

Type: [AuditMitigationActionsTaskTarget \(p. 833\)](#) object

[taskStatistics \(p. 228\)](#)

Aggregate counts of the results when the mitigation tasks were applied to the findings for this audit mitigation actions task.

Type: String to [TaskStatisticsForAuditCheck \(p. 1024\)](#) object map

[taskStatus \(p. 228\)](#)

The current status of the task.

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DescribeAuditSuppression

Service: AWS IoT

Gets information about a Device Defender audit suppression.

Request Syntax

```
POST /audit/suppressions/describe HTTP/1.1
Content-type: application/json

{
  "checkName": "string",
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[checkName \(p. 232\)](#)

An audit check name. Checks must be enabled for your account. (Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or use [UpdateAccountAuditConfiguration](#) to select which checks are enabled.)

Type: String

Required: Yes

[resourceIdentifier \(p. 232\)](#)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: Yes

Response Syntax

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

{
    "checkName": "string",
    "description": "string",
    "expirationDate": number,
    "resourceIdentifier": {
        "account": "string",
        "caCertificateId": "string",
        "clientId": "string",
        "cognitoIdentityPoolId": "string",
        "deviceCertificateArn": "string",
        "deviceCertificateId": "string",
        "iamRoleArn": "string",
        "issuerCertificateIdentifier": {
            "issuerCertificateSerialNumber": "string",
            "issuerCertificateSubject": "string",
            "issuerId": "string"
        },
        "policyVersionIdentifier": {
            "policyName": "string",
            "policyVersionId": "string"
        },
        "roleAliasArn": "string"
    },
    "suppressIndefinitely": boolean
}
```

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.

[checkName \(p. 233\)](#)

An audit check name. Checks must be enabled for your account. (Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or use [UpdateAccountAuditConfiguration](#) to select which checks are enabled.)

Type: String

[description \(p. 233\)](#)

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

[expirationDate \(p. 233\)](#)

The epoch timestamp in seconds at which this suppression expires.

Type: Timestamp

[resourceIdentifier \(p. 233\)](#)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object
[suppressIndefinitely \(p. 233\)](#)

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeAuditTask

Service: AWS IoT

Gets information about a Device Defender audit.

Requires permission to access the [DescribeAuditTask](#) action.

Request Syntax

```
GET /audit/tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[taskId \(p. 235\)](#)

The ID of the audit whose information you want to get.

Length Constraints: Minimum length of 1. Maximum length of 40.

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

{
    "auditDetails": {
        "string" : {
            "checkCompliant": boolean,
            "checkRunStatus": "string",
            "errorCode": "string",
            "message": "string",
            "nonCompliantResourcesCount": number,
            "suppressedNonCompliantResourcesCount": number,
            "totalResourcesCount": number
        }
    },
    "scheduledAuditName": "string",
    "taskStartTime": number,
    "taskStatistics": {
        "canceledChecks": number,
        "compliantChecks": number,
        "failedChecks": number,
        "inProgressChecks": number,
        "nonCompliantChecks": number,
        "totalChecks": number,
        "waitingForDataCollectionChecks": number
    },
    "taskStatus": "string",
```

```
    "taskType": "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.

[auditDetails \(p. 235\)](#)

Detailed information about each check performed during this audit.

Type: String to [AuditCheckDetails \(p. 826\)](#) object map

[scheduledAuditName \(p. 235\)](#)

The name of the scheduled audit (only if the audit was a scheduled audit).

Type: String

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

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

[taskStartTime \(p. 235\)](#)

The time the audit started.

Type: Timestamp

[taskStatistics \(p. 235\)](#)

Statistical information about the audit.

Type: [TaskStatistics \(p. 1022\)](#) object

[taskStatus \(p. 235\)](#)

The status of the audit: one of "IN_PROGRESS", "COMPLETED", "FAILED", or "CANCELED".

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

[taskType \(p. 235\)](#)

The type of audit: "ON_DEMAND_AUDIT_TASK" or "SCHEDULED_AUDIT_TASK".

Type: String

Valid Values: ON_DEMAND_AUDIT_TASK | SCHEDULED_AUDIT_TASK

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeAuthorizer

Service: AWS IoT

Describes an authorizer.

Requires permission to access the [DescribeAuthorizer](#) action.

Request Syntax

```
GET /authorizer/authorizerName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

authorizerName (p. 238)

The name of the authorizer to describe.

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

Pattern: [\w=_,@-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "authorizerDescription": {
    "authorizerArn": "string",
    "authorizerFunctionArn": "string",
    "authorizerName": "string",
    "creationDate": number,
    "enableCachingForHttp": boolean,
    "lastModifiedDate": number,
    "signingDisabled": boolean,
    "status": "string",
    "tokenKeyName": "string",
    "tokenSigningPublicKeys": {
      "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.

[authorizerDescription \(p. 238\)](#)

The authorizer description.

Type: [AuthorizerDescription \(p. 840\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeBillingGroup

Service: AWS IoT

Returns information about a billing group.

Requires permission to access the [DescribeBillingGroup](#) action.

Request Syntax

```
GET /billing-groups/billingGroupName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName \(p. 240\)](#)

The name of the billing group.

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

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

{
    "billingGroupArn": "string",
    "billingGroupId": "string",
    "billingGroupMetadata": {
        "creationDate": number
    },
    "billingGroupName": "string",
    "billingGroupProperties": {
        "billingGroupDescription": "string"
    },
    "version": number
}
```

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.

[billingGroupArn \(p. 240\)](#)

The ARN of the billing group.

Type: String

[billingGroupId \(p. 240\)](#)

The ID of the billing group.

Type: String

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

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

[billingGroupMetadata \(p. 240\)](#)

Additional information about the billing group.

Type: [BillingGroupMetadata \(p. 858\)](#) object

[billingGroupName \(p. 240\)](#)

The name of the billing group.

Type: String

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

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

[billingGroupProperties \(p. 240\)](#)

The properties of the billing group.

Type: [BillingGroupProperties \(p. 859\)](#) object

[version \(p. 240\)](#)

The version of the billing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeCACertificate

Service: AWS IoT

Describes a registered CA certificate.

Requires permission to access the [DescribeCACertificate](#) action.

Request Syntax

```
GET /cacertificate/caCertificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[caCertificateId \(p. 243\)](#)

The CA certificate identifier.

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "certificateDescription": {
    "autoRegistrationStatus": "string",
    "certificateArn": "string",
    "certificateId": "string",
    "certificateMode": "string",
    "certificatePem": "string",
    "creationDate": number,
    "customerVersion": number,
    "generationId": "string",
    "lastModifiedDate": number,
    "ownedBy": "string",
    "status": "string",
    "validity": {
      "notAfter": number,
      "notBefore": number
    }
  },
  "registrationConfig": {
    "roleArn": "string",
    "templateBody": "string",
    "templateName": "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.

[certificateDescription \(p. 243\)](#)

The CA certificate description.

Type: [CACertificateDescription \(p. 863\)](#) object

[registrationConfig \(p. 243\)](#)

Information about the registration configuration.

Type: [RegistrationConfig \(p. 988\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeCertificate

Service: AWS IoT

Gets information about the specified certificate.

Requires permission to access the [DescribeCertificate](#) action.

Request Syntax

```
GET /certificates/certificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

certificateId (p. 246)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "certificateDescription": {
        "caCertificateId": "string",
        "certificateArn": "string",
        "certificateId": "string",
        "certificateMode": "string",
        "certificatePem": "string",
        "creationDate": number,
        "customerVersion": number,
        "generationId": "string",
        "lastModifiedDate": number,
        "ownedBy": "string",
        "previousOwnedBy": "string",
        "status": "string",
        "transferData": {
            "acceptDate": number,
            "rejectDate": number,
            "rejectReason": "string",
            "transferDate": number,
            "transferMessage": "string"
        },
        "validity": {
            "notAfter": number,
            "notBefore": number
        }
    }
}
```

```
    }  
}
```

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.

[certificateDescription \(p. 246\)](#)

The description of the certificate.

Type: [CertificateDescription \(p. 868\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeCustomMetric

Service: AWS IoT

Gets information about a Device Defender detect custom metric.

Requires permission to access the [DescribeCustomMetric](#) action.

Request Syntax

```
GET /custom-metric/metricName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[metricName \(p. 249\)](#)

The name of the custom metric.

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

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

{
  "creationDate": number,
  "displayName": "string",
  "lastModifiedDate": number,
  "metricArn": "string",
  "metricName": "string",
  "metricType": "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.

[creationDate \(p. 249\)](#)

The creation date of the custom metric in milliseconds since epoch.

Type: Timestamp

[displayName \(p. 249\)](#)

Field represents a friendly name in the console for the custom metric; doesn't have to be unique. Don't use this name as the metric identifier in the device metric report. Can be updated.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\p{Graph}]\x20]*

[lastModifiedDate \(p. 249\)](#)

The time the custom metric was last modified in milliseconds since epoch.

Type: Timestamp

[metricArn \(p. 249\)](#)

The Amazon Resource Number (ARN) of the custom metric.

Type: String

[metricName \(p. 249\)](#)

The name of the custom metric.

Type: String

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

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

[metricType \(p. 249\)](#)

The type of the custom metric.

Important

The type number only takes a single metric value as an input, but while submitting the metrics value in the DeviceMetrics report, it must be passed as an array with a single value.

Type: String

Valid Values: string-list | ip-address-list | number-list | number

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeDefaultAuthorizer

Service: AWS IoT

Describes the default authorizer.

Requires permission to access the [DescribeDefaultAuthorizer](#) action.

Request Syntax

```
GET /default-authorizer HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "authorizerDescription": {
    "authorizerArn": "string",
    "authorizerFunctionArn": "string",
    "authorizerName": "string",
    "creationDate": number,
    "enableCachingForHttp": boolean,
    "lastModifiedDate": number,
    "signingDisabled": boolean,
    "status": "string",
    "tokenKeyName": "string",
    "tokenSigningPublicKeys": {
      "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.

authorizerDescription (p. 252)

The default authorizer's description.

Type: [AuthorizerDescription \(p. 840\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeDetectMitigationActionsTask

Service: AWS IoT

Gets information about a Device Defender ML Detect mitigation action.

Requires permission to access the [DescribeDetectMitigationActionsTask](#) action.

Request Syntax

```
GET /detect/mitigationactions/tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 254)

The unique identifier of the task.

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

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

{
    "taskSummary": {
        "actionsDefinition": [
            {
                "actionParams": {
                    "addThingsToThingGroupParams": {
                        "overrideDynamicGroups": boolean,
                        "thingGroupNames": [ "string" ]
                    },
                    "enableIoTLoggingParams": {
                        "logLevel": "string",
                        "roleArnForLogging": "string"
                    },
                    "publishFindingToSnsParams": {
                        "topicArn": "string"
                    },
                    "replaceDefaultPolicyVersionParams": {
                        "templateName": "string"
                    },
                    "updateCACertificateParams": {
                        "action": "string"
                    },
                    "updateDeviceCertificateParams": {
                        ...
                    }
                }
            }
        ]
    }
}
```

```
        "action": "string"
    },
},
"id": "string",
"name": "string",
"roleArn": "string"
},
],
"onlyActiveViolationsIncluded": boolean,
"suppressedAlertsIncluded": boolean,
"target": {
    "behaviorName": "string",
    "securityProfileName": "string",
    "violationIds": [ "string" ]
},
"taskEndTime": number,
"taskId": "string",
"taskStartTime": number,
"taskStatistics": {
    "actionsExecuted": number,
    "actionsFailed": number,
    "actionsSkipped": number
},
"taskStatus": "string",
"violationEventOccurrenceRange": {
    "endTime": number,
    "startTime": number
}
}
}
```

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.

taskSummary (p. 254)

The description of a task.

Type: [DetectMitigationActionsTaskSummary \(p. 886\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeDimension

Service: AWS IoT

Provides details about a dimension that is defined in your AWS accounts.

Requires permission to access the [DescribeDimension](#) action.

Request Syntax

```
GET /dimensions/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

name (p. 257)

The unique identifier for the dimension.

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

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

{
    "arn": "string",
    "creationDate": number,
    "lastModifiedDate": number,
    "name": "string",
    "stringValues": [ "string" ],
    "type": "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 (p. 257)

The Amazon Resource Name (ARN) for the dimension.

Type: String

[creationDate \(p. 257\)](#)

The date the dimension was created.

Type: Timestamp

[lastModifiedDate \(p. 257\)](#)

The date the dimension was last modified.

Type: Timestamp

[name \(p. 257\)](#)

The unique identifier for the dimension.

Type: String

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

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

[stringValues \(p. 257\)](#)

The value or list of values used to scope the dimension. For example, for topic filters, this is the pattern used to match the MQTT topic name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

[type \(p. 257\)](#)

The type of the dimension.

Type: String

Valid Values: TOPIC_FILTER

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeDomainConfiguration

Service: AWS IoT

Gets summary information about a domain configuration.

Requires permission to access the [DescribeDomainConfiguration](#) action.

Request Syntax

```
GET /domainConfigurations/domainConfigurationName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainConfigurationName (p. 260)

The name of the domain configuration.

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

Pattern: [\w.:-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "authorizerConfig": {
        "allowAuthorizerOverride": boolean,
        "defaultAuthorizerName": "string"
    },
    "domainConfigurationArn": "string",
    "domainConfigurationName": "string",
    "domainConfigurationStatus": "string",
    "domainName": "string",
    "domainType": "string",
    "lastStatusChangeDate": number,
    "serverCertificates": [
        {
            "serverCertificateArn": "string",
            "serverCertificateStatus": "string",
            "serverCertificateStatusDetail": "string"
        }
    ],
    "serviceType": "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.

authorizerConfig (p. 260)

An object that specifies the authorization service for a domain.

Type: [AuthorizerConfig \(p. 839\)](#) object

domainConfigurationArn (p. 260)

The ARN of the domain configuration.

Type: String

domainConfigurationName (p. 260)

The name of the domain configuration.

Type: String

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

Pattern: [\w.:-]+

domainConfigurationStatus (p. 260)

A Boolean value that specifies the current state of the domain configuration.

Type: String

Valid Values: ENABLED | DISABLED

domainName (p. 260)

The name of the domain.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: [\s\S]*

domainType (p. 260)

The type of the domain.

Type: String

Valid Values: ENDPOINT | AWS_MANAGED | CUSTOMER_MANAGED

lastStatusChangeDate (p. 260)

The date and time the domain configuration's status was last changed.

Type: Timestamp

serverCertificates (p. 260)

A list containing summary information about the server certificate included in the domain configuration.

Type: Array of [ServerCertificateSummary \(p. 1006\)](#) objects

serviceType (p. 260)

The type of service delivered by the endpoint.

Type: String

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeEndpoint

Service: AWS IoT

Returns a unique endpoint specific to the AWS account making the call.

Requires permission to access the [DescribeEndpoint](#) action.

Request Syntax

```
GET /endpoint?endpointType=endpointType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[endpointType \(p. 263\)](#)

The endpoint type. Valid endpoint types include:

- `iot:Data` - Returns a VeriSign signed data endpoint.
- `iot:Data-ATS` - Returns an ATS signed data endpoint.
- `iot:CredentialProvider` - Returns an AWS IoT credentials provider API endpoint.
- `iot:Jobs` - Returns an AWS IoT device management Jobs API endpoint.

We strongly recommend that customers use the newer `iot:Data-ATS` endpoint type to avoid issues related to the widespread distrust of Symantec certificate authorities.

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
    "endpointAddress": "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.

[endpointAddress \(p. 263\)](#)

The endpoint. The format of the endpoint is as follows: *identifier*.iot.region.amazonaws.com.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeEventConfigurations

Service: AWS IoT

Describes event configurations.

Requires permission to access the [DescribeEventConfigurations](#) action.

Request Syntax

```
GET /event-configurations HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "creationDate": number,
    "eventConfigurations": {
        "string": {
            "Enabled": boolean
        }
    },
    "lastModifiedDate": number
}
```

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.

[creationDate](#) (p. 265)

The creation date of the event configuration.

Type: Timestamp

[eventConfigurations](#) (p. 265)

The event configurations.

Type: String to [Configuration](#) (p. 879) object map

Valid Keys: THING | THING_GROUP | THING_TYPE | THING_GROUP_MEMBERSHIP | THING_GROUP_HIERARCHY | THING_TYPE_ASSOCIATION | JOB | JOB_EXECUTION | POLICY | CERTIFICATE | CA_CERTIFICATE

[lastModifiedDate](#) (p. 265)

The date the event configurations were last modified.

Type: Timestamp

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

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

DescribeFleetMetric

Service: AWS IoT

Gets information about the specified fleet metric.

Requires permission to access the [DescribeFleetMetric](#) action.

Request Syntax

```
GET /fleet-metric/metricName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metricName (p. 267)

The name of the fleet metric to describe.

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

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

{
  "aggregationField": "string",
  "aggregationType": {
    "name": "string",
    "values": [ "string" ]
  },
  "creationDate": number,
  "description": "string",
  "indexName": "string",
  "lastModifiedDate": number,
  "metricArn": "string",
  "metricName": "string",
  "period": number,
  "queryString": "string",
  "queryVersion": "string",
  "unit": "string",
  "version": number
}
```

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.

[aggregationField \(p. 267\)](#)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

[aggregationType \(p. 267\)](#)

The type of the aggregation query.

Type: [AggregationType \(p. 818\)](#) object

[creationDate \(p. 267\)](#)

The date when the fleet metric is created.

Type: Timestamp

[description \(p. 267\)](#)

The fleet metric description.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [\p{Graph}\x20]*

[indexName \(p. 267\)](#)

The name of the index to search.

Type: String

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

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

[lastModifiedDate \(p. 267\)](#)

The date when the fleet metric is last modified.

Type: Timestamp

[metricArn \(p. 267\)](#)

The ARN of the fleet metric to describe.

Type: String

[metricName \(p. 267\)](#)

The name of the fleet metric to describe.

Type: String

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

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

[period \(p. 267\)](#)

The time in seconds between fleet metric emissions. Range [60(1 min), 86400(1 day)] and must be multiple of 60.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

queryString (p. 267)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

queryVersion (p. 267)

The query version.

Type: String

unit (p. 267)

Used to support unit transformation such as milliseconds to seconds. The unit must be supported by [CW metric](#).

Type: String

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second | None

version (p. 267)

The version of the fleet metric.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeIndex

Service: AWS IoT

Describes a search index.

Requires permission to access the [DescribeIndex](#) action.

Request Syntax

```
GET /indices/indexName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

indexName (p. 271)

The index name.

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

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

{
    "indexName": "string",
    "indexStatus": "string",
    "schema": "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.

indexName (p. 271)

The index name.

Type: String

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

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

[indexStatus \(p. 271\)](#)

The index status.

Type: String

Valid Values: ACTIVE | BUILDING | REBUILDING

[schema \(p. 271\)](#)

Contains a value that specifies the type of indexing performed. Valid values are:

- REGISTRY – Your thing index contains only registry data.
- REGISTRY_AND_SHADOW - Your thing index contains registry data and shadow data.
- REGISTRY_AND_CONNECTIVITY_STATUS - Your thing index contains registry data and thing connectivity status data.
- REGISTRY_AND_SHADOW_AND_CONNECTIVITY_STATUS - Your thing index contains registry data, shadow data, and thing connectivity status data.
- MULTI_INDEXING_MODE - Your thing index contains multiple data sources. For more information, see [GetIndexingConfiguration](#).

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeJob

Service: AWS IoT

Describes a job.

Requires permission to access the [DescribeJob](#) action.

Request Syntax

```
GET /jobs/jobId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[jobId \(p. 274\)](#)

The unique identifier you assigned to this job when it was created.

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

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

{
    "documentSource": "string",
    "job": {
        "abortConfig": {
            "criteriaList": [
                {
                    "action": "string",
                    "failureType": "string",
                    "minNumberOfExecutedThings": number,
                    "thresholdPercentage": number
                }
            ]
        },
        "comment": "string",
        "completedAt": number,
        "createdAt": number,
        "description": "string",
        "documentParameters": {
            "string" : "string"
        },
        "forceCanceled": boolean,
        "isConcurrent": boolean,
        "jobArn": "string",
        "jobExecutionsRetryConfig": {

```

```

    "criteriaList": [
        {
            "failureType": "string",
            "numberOfRetries": number
        }
    ],
    "jobExecutionsRolloutConfig": {
        "exponentialRate": {
            "baseRatePerMinute": number,
            "incrementFactor": number,
            "rateIncreaseCriteria": {
                "numberOfNotifiedThings": number,
                "numberOfSucceededThings": number
            }
        },
        "maximumPerMinute": number
    },
    "jobId": "string",
    "jobProcessDetails": {
        "numberOfCanceledThings": number,
        "numberOfFailedThings": number,
        "numberOfInProgressThings": number,
        "numberOfQueuedThings": number,
        "numberOfRejectedThings": number,
        "numberOfRemovedThings": number,
        "numberOfSucceededThings": number,
        "numberOfTimedOutThings": number,
        "processingTargets": [ "string" ]
    },
    "jobTemplateArn": "string",
    "lastUpdatedAt": number,
    "namespaceId": "string",
    "presignedUrlConfig": {
        "expiresInSec": number,
        "roleArn": "string"
    },
    "reasonCode": "string",
    "status": "string",
    "targets": [ "string" ],
    "targetSelection": "string",
    "timeoutConfig": {
        "inProgressTimeoutInMinutes": number
    }
}
}

```

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.

[documentSource \(p. 274\)](#)

An S3 link to the job document.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

[job \(p. 274\)](#)

Information about the job.

Type: [Job \(p. 922\)](#) object

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

DescribeJobExecution

Service: AWS IoT

Describes a job execution.

Requires permission to access the [DescribeJobExecution](#) action.

Request Syntax

```
GET /things/thingName/jobs/jobId?executionNumber=executionNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

executionNumber (p. 277)

A string (consisting of the digits "0" through "9" which is used to specify a particular job execution on a particular device.

jobId (p. 277)

The unique identifier you assigned to this job when it was created.

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

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

Required: Yes

thingName (p. 277)

The name of the thing on which the job execution is running.

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

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

{
  "execution": {
    "approximateSecondsBeforeTimedOut": number,
    "executionNumber": number,
    "forceCanceled": boolean,
    "jobId": "string",
    "lastUpdatedAt": number,
    "queuedAt": number,
    "startedAt": number,
  }
}
```

```
    "status": "string",
    "statusDetails": {
        "detailsMap": {
            "string" : "string"
        }
    },
    "thingArn": "string",
    "versionNumber": number
}
}
```

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.

[execution \(p. 277\)](#)

Information about the job execution.

Type: [JobExecution \(p. 926\)](#) object

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

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

DescribeJobTemplate

Service: AWS IoT

Returns information about a job template.

Request Syntax

```
GET /job-templates/jobTemplateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobTemplateId (p. 280)

The unique identifier of the job template.

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

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

{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "createdAt": number,
  "description": "string",
  "document": "string",
  "documentSource": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "rate": number
    }
  }
}
```

```
        "incrementFactor": number,
        "rateIncreaseCriteria": {
            "numberOfNotifiedThings": number,
            "numberOfSucceededThings": number
        }
    },
    "maximumPerMinute": number
},
"jobTemplateArn": "string",
"jobTemplateId": "string",
"presignedUrlConfig": {
    "expiresInSec": number,
    "roleArn": "string"
},
"timeoutConfig": {
    "inProgressTimeoutInMinutes": number
}
}
```

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.

[abortConfig \(p. 280\)](#)

The criteria that determine when and how a job abort takes place.

Type: [AbortConfig \(p. 808\)](#) object

[createdAt \(p. 280\)](#)

The time, in seconds since the epoch, when the job template was created.

Type: Timestamp

[description \(p. 280\)](#)

A description of the job template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[document \(p. 280\)](#)

The job document.

Type: String

Length Constraints: Maximum length of 32768.

[documentSource \(p. 280\)](#)

An S3 link to the job document.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

[jobExecutionsRetryConfig \(p. 280\)](#)

The configuration that determines how many retries are allowed for each failure type for a job.

Type: [JobExecutionsRetryConfig \(p. 928\)](#) object

jobExecutionsRolloutConfig (p. 280)

Allows you to create a staged rollout of a job.

Type: [JobExecutionsRolloutConfig \(p. 929\)](#) object

jobTemplateArn (p. 280)

The ARN of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

jobTemplateId (p. 280)

The unique identifier of the job template.

Type: String

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

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

presignedUrlConfig (p. 280)

Configuration for pre-signed S3 URLs.

Type: [PresignedUrlConfig \(p. 978\)](#) object

timeoutConfig (p. 280)

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig \(p. 1041\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeManagedJobTemplate

Service: AWS IoT

View details of a managed job template.

Request Syntax

```
GET /managed-job-templates/templateName?templateVersion=templateVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[templateName \(p. 284\)](#)

The unique name of a managed job template, which is required.

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

Required: Yes

[templateVersion \(p. 284\)](#)

An optional parameter to specify version of a managed template. If not specified, the pre-defined default version is returned.

Pattern: ^[1-9]+.[0-9]+

Request Body

The request does not have a request body.

Response Syntax

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

{
  "description": "string",
  "document": "string",
  "documentParameters": [
    {
      "description": "string",
      "example": "string",
      "key": "string",
      "optional": boolean,
      "regex": "string"
    }
  ],
  "environments": [ "string" ],
  "templateArn": "string",
  "templateName": "string",
  "templateVersion": "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.

[description \(p. 284\)](#)

The unique description of a managed template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[document \(p. 284\)](#)

The document schema for a managed job template.

Type: String

Length Constraints: Maximum length of 32768.

[documentParameters \(p. 284\)](#)

A map of key-value pairs that you can use as guidance to specify the inputs for creating a job from a managed template.

Note

`documentParameters` can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Type: Array of [DocumentParameter \(p. 889\)](#) objects

[environments \(p. 284\)](#)

A list of environments that are supported with the managed job template.

Type: Array of strings

Pattern: [^\p{C}]+

[templateArn \(p. 284\)](#)

The unique Amazon Resource Name (ARN) of the managed template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

[templateName \(p. 284\)](#)

The unique name of a managed template, such as AWS-Reboot.

Type: String

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

[templateVersion \(p. 284\)](#)

The version for a managed template.

Type: String

Pattern: ^[1-9]+.[0-9]+

Errors

InternalServerException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeMitigationAction

Service: AWS IoT

Gets information about a mitigation action.

Requires permission to access the [DescribeMitigationAction](#) action.

Request Syntax

```
GET /mitigationactions/actions/actionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actionName (p. 287)

The friendly name that uniquely identifies the mitigation action.

Length Constraints: Maximum length of 128.

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

{
    "actionArn": "string",
    "actionId": "string",
    "actionName": "string",
    "actionParams": {
        "addThingsToThingGroupParams": {
            "overrideDynamicGroups": boolean,
            "thingGroupNames": [ "string" ]
        },
        "enableIoTLoggingParams": {
            "logLevel": "string",
            "roleArnForLogging": "string"
        },
        "publishFindingToSnsParams": {
            "topicArn": "string"
        },
        "replaceDefaultPolicyVersionParams": {
            "templateName": "string"
        },
        "updateCACertificateParams": {
            "action": "string"
        },
        "updateDeviceCertificateParams": {
            "action": "string"
        }
}
```

```
        },
        "actionType": "string",
        "creationDate": number,
        "lastModifiedDate": number,
        "roleArn": "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.

[actionArn \(p. 287\)](#)

The ARN that identifies this migration action.

Type: String

[actionId \(p. 287\)](#)

A unique identifier for this action.

Type: String

[actionName \(p. 287\)](#)

The friendly name that uniquely identifies the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

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

[actionParams \(p. 287\)](#)

Parameters that control how the mitigation action is applied, specific to the type of mitigation action.

Type: [MitigationActionParams \(p. 961\)](#) object

[actionType \(p. 287\)](#)

The type of mitigation action.

Type: String

Valid Values: UPDATE_DEVICE_CERTIFICATE | UPDATE_CA_CERTIFICATE | ADD_THINGS_TO_THING_GROUP | REPLACE_DEFAULT_POLICY_VERSION | ENABLE_IOT_LOGGING | PUBLISH_FINDING_TO_SNS

[creationDate \(p. 287\)](#)

The date and time when the mitigation action was added to your AWS accounts.

Type: Timestamp

[lastModifiedDate \(p. 287\)](#)

The date and time when the mitigation action was last changed.

Type: Timestamp

[roleArn \(p. 287\)](#)

The ARN of the IAM role used to apply this action.

Type: String

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeProvisioningTemplate

Service: AWS IoT

Returns information about a provisioning template.

Requires permission to access the [DescribeProvisioningTemplate](#) action.

Request Syntax

```
GET /provisioning-templates/templateName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName (p. 290)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "creationDate": number,
  "defaultVersionId": number,
  "description": "string",
  "enabled": boolean,
  "lastModifiedDate": number,
  "preProvisioningHook": {
    "payloadVersion": "string",
    "targetArn": "string"
  },
  "provisioningRoleArn": "string",
  "templateArn": "string",
  "templateBody": "string",
  "templateName": "string",
  "type": "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.

[creationDate \(p. 290\)](#)

The date when the provisioning template was created.

Type: Timestamp

[defaultVersionId \(p. 290\)](#)

The default fleet template version ID.

Type: Integer

[description \(p. 290\)](#)

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [^\p{C}]*

[enabled \(p. 290\)](#)

True if the provisioning template is enabled, otherwise false.

Type: Boolean

[lastModifiedDate \(p. 290\)](#)

The date when the provisioning template was last modified.

Type: Timestamp

[preProvisioningHook \(p. 290\)](#)

Gets information about a pre-provisioned hook.

Type: [ProvisioningHook \(p. 979\)](#) object

[provisioningRoleArn \(p. 290\)](#)

The ARN of the role associated with the provisioning template. This IoT role grants permission to provision a device.

Type: String

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

[templateArn \(p. 290\)](#)

The ARN of the provisioning template.

Type: String

[templateBody \(p. 290\)](#)

The JSON formatted contents of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

[templateName \(p. 290\)](#)

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

[type \(p. 290\)](#)

The type you define in a provisioning template. You can create a template with only one type. You can't change the template type after its creation. The default value is FLEET_PROVISIONING. For more information about provisioning template, see: [Provisioning template](#).

Type: String

Valid Values: FLEET_PROVISIONING | JITP

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DescribeProvisioningTemplateVersion

Service: AWS IoT

Returns information about a provisioning template version.

Requires permission to access the [DescribeProvisioningTemplateVersion](#) action.

Request Syntax

```
GET /provisioning-templates/templateName/versions/versionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName (p. 294)

The template name.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

versionId (p. 294)

The provisioning template version ID.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "creationDate": number,
  "isDefaultVersion": boolean,
  "templateBody": "string",
  "versionId": number
}
```

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.

creationDate (p. 294)

The date when the provisioning template version was created.

Type: Timestamp

[isDefaultVersion \(p. 294\)](#)

True if the provisioning template version is the default version.

Type: Boolean

[templateBody \(p. 294\)](#)

The JSON formatted contents of the provisioning template version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

[versionId \(p. 294\)](#)

The provisioning template version ID.

Type: Integer

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeRoleAlias

Service: AWS IoT

Describes a role alias.

Requires permission to access the [DescribeRoleAlias](#) action.

Request Syntax

```
GET /role-aliases/roleAlias HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[roleAlias \(p. 297\)](#)

The role alias to describe.

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

Pattern: [\w=,@-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "roleAliasDescription": {
    "creationDate": number,
    "credentialDurationSeconds": number,
    "lastModifiedDate": number,
    "owner": "string",
    "roleAlias": "string",
    "roleAliasArn": "string",
    "roleArn": "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.

[roleAliasDescription \(p. 297\)](#)

The role alias description.

Type: [RoleAliasDescription \(p. 995\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeScheduledAudit

Service: AWS IoT

Gets information about a scheduled audit.

Requires permission to access the [DescribeScheduledAudit](#) action.

Request Syntax

```
GET /audit/scheduledaudits/scheduledAuditName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[scheduledAuditName \(p. 299\)](#)

The name of the scheduled audit whose information you want to get.

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

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

{
  "dayOfMonth": "string",
  "dayOfWeek": "string",
  "frequency": "string",
  "scheduledAuditArn": "string",
  "scheduledAuditName": "string",
  "targetCheckNames": [ "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.

[dayOfMonth \(p. 299\)](#)

The day of the month on which the scheduled audit takes place. This is will be 1 through 31 or LAST. If days 29-31 are specified, and the month does not have that many days, the audit takes place on the LAST day of the month.

Type: String

Pattern: ^([1-9] | [12][0-9] | 3[01])\$ | ^LAST\$

[dayOfWeek \(p. 299\)](#)

The day of the week on which the scheduled audit takes place, either one of SUN, MON, TUE, WED, THU, FRI, or SAT.

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

[frequency \(p. 299\)](#)

How often the scheduled audit takes place, either one of DAILY, WEEKLY, BIWEEKLY, or MONTHLY. The start time of each audit is determined by the system.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

[scheduledAuditArn \(p. 299\)](#)

The ARN of the scheduled audit.

Type: String

[scheduledAuditName \(p. 299\)](#)

The name of the scheduled audit.

Type: String

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

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

[targetCheckNames \(p. 299\)](#)

Which checks are performed during the scheduled audit. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeSecurityProfile

Service: AWS IoT

Gets information about a Device Defender security profile.

Requires permission to access the [DescribeSecurityProfile](#) action.

Request Syntax

```
GET /security-profiles/securityProfileName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[securityProfileName \(p. 302\)](#)

The name of the security profile whose information you want to get.

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

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

{
    "additionalMetricsToRetain": [ "string" ],
    "additionalMetricsToRetainV2": [
        {
            "metric": "string",
            "metricDimension": {
                "dimensionName": "string",
                "operator": "string"
            }
        }
    ],
    "alertTargets": {
        "string": {
            "alertTargetArn": "string",
            "roleArn": "string"
        }
    },
    "behaviors": [
        {
            "criteria": {
                "comparisonOperator": "string",
                "consecutiveDatapointsToAlarm": number,
                "consecutiveDatapointsToClear": number
            }
        }
    ]
}
```

```

    "durationSeconds": number,
    "mlDetectionConfig": {
        "confidenceLevel": "string"
    },
    "statisticalThreshold": {
        "statistic": "string"
    },
    "value": {
        "cidrs": [ "string" ],
        "count": number,
        "number": number,
        "numbers": [ number ],
        "ports": [ number ],
        "strings": [ "string" ]
    }
},
"metric": "string",
"metricDimension": {
    "dimensionName": "string",
    "operator": "string"
},
"name": "string",
"suppressAlerts": boolean
}
],
"creationDate": number,
"lastModifiedDate": number,
"securityProfileArn": "string",
"securityProfileDescription": "string",
"securityProfileName": "string",
"version": number
}
}

```

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.

[additionalMetricsToRetain \(p. 302\)](#)

This parameter has been deprecated.

Please use [DescribeSecurityProfile:additionalMetricsToRetainV2 \(p. 303\)](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here.

Type: Array of strings

[additionalMetricsToRetainV2 \(p. 302\)](#)

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here.

Type: Array of [MetricToRetain \(p. 956\)](#) objects

[alertTargets \(p. 302\)](#)

Where the alerts are sent. (Alerts are always sent to the console.)

Type: String to [AlertTarget \(p. 819\)](#) object map

Valid Keys: SNS

behaviors (p. 302)

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior \(p. 852\)](#) objects

Array Members: Maximum number of 100 items.

creationDate (p. 302)

The time the security profile was created.

Type: Timestamp

lastModifiedDate (p. 302)

The time the security profile was last modified.

Type: Timestamp

securityProfileArn (p. 302)

The ARN of the security profile.

Type: String

securityProfileDescription (p. 302)

A description of the security profile (associated with the security profile when it was created or updated).

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

securityProfileName (p. 302)

The name of the security profile.

Type: String

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

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

version (p. 302)

The version of the security profile. A new version is generated whenever the security profile is updated.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DescribeStream

Service: AWS IoT

Gets information about a stream.

Requires permission to access the [DescribeStream](#) action.

Request Syntax

```
GET /streams/streamId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[streamId \(p. 306\)](#)

The stream ID.

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

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

{
  "streamInfo": {
    "createdAt": number,
    "description": "string",
    "files": [
      {
        "fileId": number,
        "s3Location": {
          "bucket": "string",
          "key": "string",
          "version": "string"
        }
      }
    ],
    "lastUpdatedAt": number,
    "roleArn": "string",
    "streamArn": "string",
    "streamId": "string",
    "streamVersion": number
  }
}
```

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.

[streamInfo \(p. 306\)](#)

Information about the stream.

Type: [StreamInfo \(p. 1018\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

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

DescribeThing

Service: AWS IoT

Gets information about the specified thing.

Requires permission to access the [DescribeThing](#) action.

Request Syntax

```
GET /things/thingName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[thingName \(p. 309\)](#)

The name of the thing.

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

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

{
  "attributes": {
    "string" : "string"
  },
  "billingGroupName": "string",
  "defaultClientId": "string",
  "thingArn": "string",
  "thingId": "string",
  "thingName": "string",
  "thingTypeName": "string",
  "version": number
}
```

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.

[attributes \(p. 309\)](#)

The thing attributes.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.@/:#-]*

[billingGroupName \(p. 309\)](#)

The name of the billing group the thing belongs to.

Type: String

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

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

[defaultClientId \(p. 309\)](#)

The default MQTT client ID. For a typical device, the thing name is also used as the default MQTT client ID. Although we don't require a mapping between a thing's registry name and its use of MQTT client IDs, certificates, or shadow state, we recommend that you choose a thing name and use it as the MQTT client ID for the registry and the Device Shadow service.

This lets you better organize your AWS IoT fleet without removing the flexibility of the underlying device certificate model or shadows.

Type: String

[thingArn \(p. 309\)](#)

The ARN of the thing to describe.

Type: String

[thingId \(p. 309\)](#)

The ID of the thing to describe.

Type: String

[thingName \(p. 309\)](#)

The name of the thing.

Type: String

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

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

[thingTypeName \(p. 309\)](#)

The thing type name.

Type: String

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

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

[version \(p. 309\)](#)

The current version of the thing record in the registry.

Note

To avoid unintentional changes to the information in the registry, you can pass the version information in the `expectedVersion` parameter of the `UpdateThing` and `DeleteThing` calls.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DescribeThingGroup

Service: AWS IoT

Describe a thing group.

Requires permission to access the [DescribeThingGroup](#) action.

Request Syntax

```
GET /thing-groups/thingGroupName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

thingGroupName (p. 312)

The name of the thing group.

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

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

{
    "indexName": "string",
    "queryString": "string",
    "queryVersion": "string",
    "status": "string",
    "thingGroupArn": "string",
    "thingGroupId": "string",
    "thingGroupMetadata": {
        "creationDate": number,
        "parentGroupName": "string",
        "rootToParentThingGroups": [
            {
                "groupArn": "string",
                "groupName": "string"
            }
        ]
    },
    "thingGroupName": "string",
    "thingGroupProperties": {
        "attributePayload": {
            "attributes": {
                "string" : "string"
            },
            "merge": boolean
        }
    }
}
```

```
        },
        "thingGroupDescription": "string"
    },
    "version": number
}
```

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.

[indexName \(p. 312\)](#)

The dynamic thing group index name.

Type: String

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

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

[queryString \(p. 312\)](#)

The dynamic thing group search query string.

Type: String

Length Constraints: Minimum length of 1.

[queryVersion \(p. 312\)](#)

The dynamic thing group query version.

Type: String

[status \(p. 312\)](#)

The dynamic thing group status.

Type: String

Valid Values: ACTIVE | BUILDING | REBUILDING

[thingGroupArn \(p. 312\)](#)

The thing group ARN.

Type: String

[thingGroupId \(p. 312\)](#)

The thing group ID.

Type: String

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

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

[thingGroupMetadata \(p. 312\)](#)

Thing group metadata.

Type: [ThingGroupMetadata \(p. 1034\)](#) object

[thingGroupName \(p. 312\)](#)

The name of the thing group.

Type: String

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

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

[thingGroupProperties \(p. 312\)](#)

The thing group properties.

Type: [ThingGroupProperties \(p. 1035\)](#) object

[version \(p. 312\)](#)

The version of the thing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DescribeThingRegistrationTask

Service: AWS IoT

Describes a bulk thing provisioning task.

Requires permission to access the [DescribeThingRegistrationTask](#) action.

Request Syntax

```
GET /thing-registration-tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 316)

The task ID.

Length Constraints: Maximum length of 40.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "creationDate": number,
  "failureCount": number,
  "inputFileBucket": "string",
  "inputFileKey": "string",
  "lastModifiedDate": number,
  "message": "string",
  "percentageProgress": number,
  "roleArn": "string",
  "status": "string",
  "successCount": number,
  "taskId": "string",
  "templateBody": "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.

creationDate (p. 316)

The task creation date.

Type: Timestamp

[failureCount \(p. 316\)](#)

The number of things that failed to be provisioned.

Type: Integer

[inputFileBucket \(p. 316\)](#)

The S3 bucket that contains the input file.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 256.

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

[inputFileKey \(p. 316\)](#)

The input file key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9!_.*'()_-\\/]+

[lastModifiedDate \(p. 316\)](#)

The date when the task was last modified.

Type: Timestamp

[message \(p. 316\)](#)

The message.

Type: String

Length Constraints: Maximum length of 2048.

[percentageProgress \(p. 316\)](#)

The progress of the bulk provisioning task expressed as a percentage.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

[roleArn \(p. 316\)](#)

The role ARN that grants access to the input file bucket.

Type: String

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

[status \(p. 316\)](#)

The status of the bulk thing provisioning task.

Type: String

Valid Values: InProgress | Completed | Failed | Cancelled | Cancelling

[successCount \(p. 316\)](#)

The number of things successfully provisioned.

Type: Integer

[taskId \(p. 316\)](#)

The task ID.

Type: String

Length Constraints: Maximum length of 40.

[templateBody \(p. 316\)](#)

The task's template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)

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

DescribeThingType

Service: AWS IoT

Gets information about the specified thing type.

Requires permission to access the [DescribeThingType](#) action.

Request Syntax

```
GET /thing-types/thingTypeName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

thingTypeName (p. 320)

The name of the thing type.

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

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

{
    "thingTypeArn": "string",
    "thingTypeId": "string",
    "thingTypeMetadata": {
        "creationDate": number,
        "deprecated": boolean,
        "deprecationDate": number
    },
    "thingTypeName": "string",
    "thingTypeProperties": {
        "searchableAttributes": [ "string" ],
        "thingTypeDescription": "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.

[thingTypeArn \(p. 320\)](#)

The thing type ARN.

Type: String

[thingTypeId \(p. 320\)](#)

The thing type ID.

Type: String

[thingTypeMetadata \(p. 320\)](#)

The ThingTypeMetadata contains additional information about the thing type including: creation date and time, a value indicating whether the thing type is deprecated, and a date and time when it was deprecated.

Type: [ThingTypeMetadata \(p. 1039\)](#) object

[thingTypeName \(p. 320\)](#)

The name of the thing type.

Type: String

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

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

[thingTypeProperties \(p. 320\)](#)

The ThingTypeProperties contains information about the thing type including description, and a list of searchable thing attribute names.

Type: [ThingTypeProperties \(p. 1040\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DetachPolicy

Service: AWS IoT

Detaches a policy from the specified target.

Note

Because of the distributed nature of AWS, it can take up to five minutes after a policy is detached before it's ready to be deleted.

Requires permission to access the [DetachPolicy](#) action.

Request Syntax

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

{
    "target": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 323\)](#)

The policy to detach.

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

Pattern: [\\w+=, .@-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[target \(p. 323\)](#)

The target from which the policy will be detached.

Type: String

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DetachPrincipalPolicy

Service: AWS IoT

Removes the specified policy from the specified certificate.

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [DetachPolicy \(p. 323\)](#) instead.

Requires permission to access the [DetachPrincipalPolicy](#) action.

Request Syntax

```
DELETE /principal-policies/policyName HTTP/1.1
x-amzn-iot-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 325\)](#)

The name of the policy to detach.

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

Pattern: [\w+=, .@-]+

Required: Yes

[principal \(p. 325\)](#)

The principal.

Valid principals are CertificateArn (arn:aws:iot:region:accountId:cert/certificateId), thingGroupArn (arn:aws:iot:region:accountId:thinggroup/groupName) and Cognitoid (region:id).

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DetachSecurityProfile

Service: AWS IoT

Disassociates a Device Defender security profile from a thing group or from this account.

Requires permission to access the [DetachSecurityProfile](#) action.

Request Syntax

```
DELETE /security-profiles/securityProfileName/targets?  
securityProfileTargetArn=securityProfileTargetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[securityProfileName \(p. 327\)](#)

The security profile that is detached.

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

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

Required: Yes

[securityProfileTargetArn \(p. 327\)](#)

The ARN of the thing group from which the security profile is detached.

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

[InvalidRequestException](#)

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

DetachThingPrincipal

Service: AWS IoT

Detaches the specified principal from the specified thing. A principal can be X.509 certificates, IAM users, groups, and roles, Amazon Cognito identities or federated identities.

Note

This call is asynchronous. It might take several seconds for the detachment to propagate.

Requires permission to access the [DetachThingPrincipal](#) action.

Request Syntax

```
DELETE /things/thingName/principals HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

principal (p. 329)

If the principal is a certificate, this value must be ARN of the certificate. If the principal is an Amazon Cognito identity, this value must be the ID of the Amazon Cognito identity.

Required: Yes

thingName (p. 329)

The name of the thing.

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

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

DisableTopicRule

Service: AWS IoT

Disables the rule.

Requires permission to access the [DisableTopicRule](#) action.

Request Syntax

```
POST /rules/ruleName/disable HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName (p. 331)

The name of the rule to disable.

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

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

EnableTopicRule

Service: AWS IoT

Enables the rule.

Requires permission to access the [EnableTopicRule](#) action.

Request Syntax

```
POST /rules/ruleName/enable HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName (p. 333)

The name of the topic rule to enable.

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

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetBehaviorModelTrainingSummaries

Service: AWS IoT

Returns a Device Defender's ML Detect Security Profile training model's status.

Requires permission to access the [GetBehaviorModelTrainingSummaries](#) action.

Request Syntax

```
GET /behavior-model-training/summaries?  
maxResults=maxResults&nextToken=nextToken&securityProfileName=securityProfileName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 335\)](#)

The maximum number of results to return at one time. The default is 10.

Valid Range: Minimum value of 1. Maximum value of 10.

[nextToken \(p. 335\)](#)

The token for the next set of results.

[securityProfileName \(p. 335\)](#)

The name of the security profile.

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

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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "nextToken": "string",  
    "summaries": [  
        {  
            "behaviorName": "string",  
            "datapointsCollectionPercentage": number,  
            "lastModelRefreshDate": number,  
            "modelStatus": "string",  
            "securityProfileName": "string",  
            "trainingDataCollectionStartDate": number  
        }  
    ]  
}
```

Response Elements

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

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

nextToken (p. 335)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

summaries (p. 335)

A list of all ML Detect behaviors and their model status for a given Security Profile.

Type: Array of [BehaviorModelTrainingSummary](#) (p. 856) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

GetBucketsAggregation

Service: AWS IoT

Aggregates on indexed data with search queries pertaining to particular fields.

Requires permission to access the [GetBucketsAggregation](#) action.

Request Syntax

```
POST /indices/buckets HTTP/1.1
Content-type: application/json

{
  "aggregationField": "string",
  "bucketsAggregationType": {
    "termsAggregation": {
      "maxBuckets": number
    }
  },
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[aggregationField \(p. 337\)](#)

The aggregation field.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[bucketsAggregationType \(p. 337\)](#)

The basic control of the response shape and the bucket aggregation type to perform.

Type: [BucketsAggregationType \(p. 861\)](#) object

Required: Yes

[indexName \(p. 337\)](#)

The name of the index to search.

Type: String

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

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

Required: No

[queryString \(p. 337\)](#)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 337\)](#)

The version of the query.

Type: String

Required: No

Response Syntax

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

{
  "buckets": [
    {
      "count": number,
      "keyValue": "string"
    }
  ],
  "totalCount": number
}
```

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.

[buckets \(p. 338\)](#)

The main part of the response with a list of buckets. Each bucket contains a keyValue and a count.

keyValue: The aggregation field value counted for the particular bucket.

count: The number of documents that have that value.

Type: Array of [Bucket \(p. 860\)](#) objects

[totalCount \(p. 338\)](#)

The total number of things that fit the query string criteria.

Type: Integer

Errors

[IndexNotReadyException](#)

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetCardinality

Service: AWS IoT

Returns the approximate count of unique values that match the query.

Requires permission to access the [GetCardinality](#) action.

Request Syntax

```
POST /indices/cardinality HTTP/1.1
Content-type: application/json

{
    "aggregationField": "string",
    "indexName": "string",
    "queryString": "string",
    "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[aggregationField \(p. 341\)](#)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[indexName \(p. 341\)](#)

The name of the index to search.

Type: String

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

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

Required: No

[queryString \(p. 341\)](#)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 341\)](#)

The query version.

Type: String

Required: No

Response Syntax

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

{
    "cardinality": number
}
```

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.

cardinality (p. 342)

The approximate count of unique values that match the query.

Type: Integer

Errors

IndexNotReadyException

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetEffectivePolicies

Service: AWS IoT

Gets a list of the policies that have an effect on the authorization behavior of the specified device when it connects to the AWS IoT device gateway.

Requires permission to access the [GetEffectivePolicies](#) action.

Request Syntax

```
POST /effective-policies?thingName=thingName HTTP/1.1
Content-type: application/json

{
  "cognitoIdentityPoolId": "string",
  "principal": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingName \(p. 344\)](#)

The thing name.

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

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

Request Body

The request accepts the following data in JSON format.

[cognitoIdentityPoolId \(p. 344\)](#)

The Cognito identity pool ID.

Type: String

Required: No

[principal \(p. 344\)](#)

The principal. Valid principals are CertificateArn (`arn:aws:iot:region:accountId:cert/certificateId`), thingGroupArn (`arn:aws:iot:region:accountId:thinggroup/groupName`) and CognitoId (`region:id`).

Type: String

Required: No

Response Syntax

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

```
{  
    "effectivePolicies": [  
        {  
            "policyArn": "string",  
            "policyDocument": "string",  
            "policyName": "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.

effectivePolicies (p. 344)

The effective policies.

Type: Array of [EffectivePolicy \(p. 895\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetIndexingConfiguration

Service: AWS IoT

Gets the indexing configuration.

Requires permission to access the [GetIndexingConfiguration](#) action.

Request Syntax

```
GET /indexing/config HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "thingGroupIndexingConfiguration": {
        "customFields": [
            {
                "name": "string",
                "type": "string"
            }
        ],
        "managedFields": [
            {
                "name": "string",
                "type": "string"
            }
        ],
        "thingGroupIndexingMode": "string"
    },
    "thingIndexingConfiguration": {
        "customFields": [
            {
                "name": "string",
                "type": "string"
            }
        ],
        "deviceDefenderIndexingMode": "string",
        "filter": {
            "namedShadowNames": [ "string" ]
        },
        "managedFields": [
            {
                "name": "string",
                "type": "string"
            }
        ],
        "namedShadowIndexingMode": "string",
        "thingConnectivityIndexingMode": "string",
    }
}
```

```
        "thingIndexingMode": "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.

[thingGroupIndexingConfiguration \(p. 347\)](#)

The index configuration.

Type: [ThingGroupIndexingConfiguration \(p. 1033\)](#) object

[thingIndexingConfiguration \(p. 347\)](#)

Thing indexing configuration.

Type: [ThingIndexingConfiguration \(p. 1036\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetJobDocument

Service: AWS IoT

Gets a job document.

Requires permission to access the [GetJobDocument](#) action.

Request Syntax

```
GET /jobs/jobId/job-document HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[jobId](#) (p. 350)

The unique identifier you assigned to this job when it was created.

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

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

{
    "document": "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.

[document](#) (p. 350)

The job document content.

Type: String

Length Constraints: Maximum length of 32768.

Errors

[InvalidRequestException](#)

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

GetLoggingOptions

Service: AWS IoT

Gets the logging options.

NOTE: use of this command is not recommended. Use [GetV2LoggingOptions](#) instead.

Requires permission to access the [GetLoggingOptions](#) action.

Request Syntax

```
GET /loggingOptions HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "logLevel": "string",
    "roleArn": "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.

[logLevel \(p. 352\)](#)

The logging level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

[roleArn \(p. 352\)](#)

The ARN of the IAM role that grants access.

Type: String

Errors

[InternalException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

GetOTAUpdate

Service: AWS IoT

Gets an OTA update.

Requires permission to access the [GetOTAUpdate](#) action.

Request Syntax

```
GET /otaUpdates/otaUpdateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

otaUpdateId (p. 354)

The OTA update ID.

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

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

{
  "otaUpdateInfo": {
    "additionalParameters": {
      "string": "string"
    },
    "awsIotJobArn": "string",
    "awsIotJobId": "string",
    "awsJobExecutionsRolloutConfig": {
      "exponentialRate": {
        "baseRatePerMinute": number,
        "incrementFactor": number,
        "rateIncreaseCriteria": {
          "numberOfNotifiedThings": number,
          "numberOfSucceededThings": number
        }
      },
      "maximumPerMinute": number
    },
    "awsJobPresignedUrlConfig": {
      "expiresInSec": number
    },
    "creationDate": number,
    "description": "string",
    "errorInfo": {
      "code": "string",
      "message": "string"
    }
  }
}
```

```

        "message": "string"
    },
    "lastModifiedDate": "number",
    "otaUpdateArn": "string",
    "otaUpdateFiles": [
        {
            "attributes": {
                "string" : "string"
            },
            "codeSigning": {
                "awsSignerJobId": "string",
                "customCodeSigning": {
                    "certificateChain": {
                        "certificateName": "string",
                        "inlineDocument": "string"
                    },
                    "hashAlgorithm": "string",
                    "signature": {
                        "inlineDocument": blob
                    },
                    "signatureAlgorithm": "string"
                },
                "startSigningJobParameter": {
                    "destination": {
                        "s3Destination": {
                            "bucket": "string",
                            "prefix": "string"
                        }
                    },
                    "signingProfileName": "string",
                    "signingProfileParameter": {
                        "certificateArn": "string",
                        "certificatePathOnDevice": "string",
                        "platform": "string"
                    }
                }
            }
        },
        {
            "fileLocation": {
                "s3Location": {
                    "bucket": "string",
                    "key": "string",
                    "version": "string"
                },
                "stream": {
                    "fileId": number,
                    "streamId": "string"
                }
            },
            "fileName": "string",
            "fileType": number,
            "fileVersion": "string"
        }
    ],
    "otaUpdateId": "string",
    "otaUpdateStatus": "string",
    "protocols": [ "string" ],
    "targets": [ "string" ],
    "targetSelection": "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.

otaUpdateInfo (p. 354)

The OTA update info.

Type: [OTAUpdateInfo \(p. 968\)](#) object

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetPercentiles

Service: AWS IoT

Groups the aggregated values that match the query into percentile groupings. The default percentile groupings are: 1,5,25,50,75,95,99, although you can specify your own when you call GetPercentiles. This function returns a value for each percentile group specified (or the default percentile groupings). The percentile group "1" contains the aggregated field value that occurs in approximately one percent of the values that match the query. The percentile group "5" contains the aggregated field value that occurs in approximately five percent of the values that match the query, and so on. The result is an approximation, the more values that match the query, the more accurate the percentile values.

Requires permission to access the [GetPercentiles](#) action.

Request Syntax

```
POST /indices/percentiles HTTP/1.1
Content-type: application/json

{
  "aggregationField": "string",
  "indexName": "string",
  "percents": [ number ],
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[aggregationField \(p. 358\)](#)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[indexName \(p. 358\)](#)

The name of the index to search.

Type: String

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

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

Required: No

[percents \(p. 358\)](#)

The percentile groups returned.

Type: Array of doubles

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

[queryString \(p. 358\)](#)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 358\)](#)

The query version.

Type: String

Required: No

Response Syntax

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

{
  "percentiles": [
    {
      "percent": number,
      "value": number
    }
  ]
}
```

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.

[percentiles \(p. 359\)](#)

The percentile values of the aggregated fields.

Type: Array of [PercentPair \(p. 974\)](#) objects

Errors

IndexNotReadyException

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidArgumentException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetPolicy

Service: AWS IoT

Gets information about the specified policy with the policy document of the default version.

Requires permission to access the [GetPolicy](#) action.

Request Syntax

```
GET /policies/policyName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 361\)](#)

The name of the policy.

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

Pattern: [\w+=,.@-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "creationDate": number,
    "defaultVersionId": "string",
    "generationId": "string",
    "lastModifiedDate": number,
    "policyArn": "string",
    "policyDocument": "string",
    "policyName": "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.

[creationDate \(p. 361\)](#)

The date the policy was created.

Type: Timestamp

defaultVersionId (p. 361)

The default policy version ID.

Type: String

Pattern: [0-9]+

generationId (p. 361)

The generation ID of the policy.

Type: String

lastModifiedDate (p. 361)

The date the policy was last modified.

Type: Timestamp

policyArn (p. 361)

The policy ARN.

Type: String

policyDocument (p. 361)

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

policyName (p. 361)

The policy name.

Type: String

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

Pattern: [\w+=,.@-]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetPolicyVersion

Service: AWS IoT

Gets information about the specified policy version.

Requires permission to access the [GetPolicyVersion](#) action.

Request Syntax

```
GET /policies/policyName/version/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 364\)](#)

The name of the policy.

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

Pattern: [\w+=,.@-]+

Required: Yes

[policyVersionId \(p. 364\)](#)

The policy version ID.

Pattern: [0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "creationDate": number,
  "generationId": "string",
  "isDefaultVersion": boolean,
  "lastModifiedDate": number,
  "policyArn": "string",
  "policyDocument": "string",
  "policyName": "string",
  "policyVersionId": "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.

creationDate (p. 364)

The date the policy was created.

Type: Timestamp

generationId (p. 364)

The generation ID of the policy version.

Type: String

isDefaultVersion (p. 364)

Specifies whether the policy version is the default.

Type: Boolean

lastModifiedDate (p. 364)

The date the policy was last modified.

Type: Timestamp

policyArn (p. 364)

The policy ARN.

Type: String

policyDocument (p. 364)

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

policyName (p. 364)

The policy name.

Type: String

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

Pattern: `[\w+=,.@-]+`

policyVersionId (p. 364)

The policy version ID.

Type: String

Pattern: `[0-9]+`

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetRegistrationCode

Service: AWS IoT

Gets a registration code used to register a CA certificate with AWS IoT.

Requires permission to access the [GetRegistrationCode](#) action.

Request Syntax

```
GET /registrationcode HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "registrationCode": "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.

[registrationCode \(p. 367\)](#)

The CA certificate registration code.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

[InvalidRequestException](#)

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetStatistics

Service: AWS IoT

Returns the count, average, sum, minimum, maximum, sum of squares, variance, and standard deviation for the specified aggregated field. If the aggregation field is of type String, only the count statistic is returned.

Requires permission to access the [GetStatistics](#) action.

Request Syntax

```
POST /indices/statistics HTTP/1.1
Content-type: application/json

{
  "aggregationField": "string",
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[aggregationField \(p. 369\)](#)

The aggregation field name.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[indexName \(p. 369\)](#)

The name of the index to search. The default value is AWS_Things.

Type: String

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

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

Required: No

[queryString \(p. 369\)](#)

The query used to search. You can specify "*" for the query string to get the count of all indexed things in your AWS account.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 369\)](#)

The version of the query used to search.

Type: String

Required: No

Response Syntax

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

{
  "statistics": {
    "average": number,
    "count": number,
    "maximum": number,
    "minimum": number,
    "stdDeviation": number,
    "sum": number,
    "sumOfSquares": number,
    "variance": number
  }
}
```

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.

[statistics \(p. 370\)](#)

The statistics returned by the Fleet Indexing service based on the query and aggregation field.

Type: [Statistics \(p. 1013\)](#) object

Errors

IndexNotReadyException

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetTopicRule

Service: AWS IoT

Gets information about the rule.

Requires permission to access the [GetTopicRule](#) action.

Request Syntax

```
GET /rules/ruleName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName (p. 372)

The name of the rule.

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

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

{
    "rule": {
        "actions": [
            {
                "cloudwatchAlarm": {
                    "alarmName": "string",
                    "roleArn": "string",
                    "stateReason": "string",
                    "stateValue": "string"
                },
                "cloudwatchLogs": {
                    "logGroupName": "string",
                    "roleArn": "string"
                },
                "cloudwatchMetric": {
                    "metricName": "string",
                    "metricNamespace": "string",
                    "metricTimestamp": "string",
                    "metricUnit": "string",
                    "metricValue": "string",
                    "roleArn": "string"
                },
                "dynamoDB": {
                    "hashKeyField": "string",
                    "roleArn": "string"
                }
            }
        ]
    }
}
```

```

    "hashKeyType": "string",
    "hashKeyValue": "string",
    "operation": "string",
    "payloadField": "string",
    "rangeKeyField": "string",
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
},
"dynamoDBv2": {
    "putItem": {
        "tableName": "string"
    },
    "roleArn": "string"
},
"elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
},
"http": {
    "auth": {
        "sigv4": {
            "roleArn": "string",
            "serviceName": "string",
            "signingRegion": "string"
        }
    },
    "confirmationUrl": "string",
    "headers": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "url": "string"
},
"iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
},
"iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
},
"iotSiteWise": {
    "putAssetPropertyValueEntries": [
        {
            "assetId": "string",
            "entryId": "string",
            "propertyAlias": "string",
            "propertyId": "string",
            "propertyValues": [

```

```
{
    "quality": "string",
    "timestamp": {
        "offsetInNanos": "string",
        "timeInSeconds": "string"
    },
    "value": {
        "booleanValue": "string",
        "doubleValue": "string",
        "integerValue": "string",
        "stringValue": "string"
    }
}
],
],
"roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "qos": number,
    "roleArn": "string",
    "topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",

```

```

        "url": "string"
    },
    "sns": {
        "messageFormat": "string",
        "roleArn": "string",
        "targetArn": "string"
    },
    "sns": {
        "queueUrl": "string",
        "roleArn": "string",
        "useBase64": boolean
    },
    "stepFunctions": {
        "executionNamePrefix": "string",
        "roleArn": "string",
        "stateMachineName": "string"
    },
    "timestream": {
        "databaseName": "string",
        "dimensions": [
            {
                "name": "string",
                "value": "string"
            }
        ],
        "roleArn": "string",
        "tableName": "string",
        "timestamp": {
            "unit": "string",
            "value": "string"
        }
    }
},
["awsIotSqlVersion": "string",
"createdAt": number,
"description": "string",
"errorAction": {
    "cloudwatchAlarm": {
        "alarmName": "string",
        "roleArn": "string",
        "stateReason": "string",
        "stateValue": "string"
    },
    "cloudwatchLogs": {
        "logGroupName": "string",
        "roleArn": "string"
    },
    "cloudwatchMetric": {
        "metricName": "string",
        "metricNamespace": "string",
        "metricTimestamp": "string",
        "metricUnit": "string",
        "metricValue": "string",
        "roleArn": "string"
    },
    "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payloadField": "string",
        "rangeKeyField": "string",
        "rangeKeyType": "string",
        "rangeKeyValue": "string",
        "roleArn": "string",
        "tableArn": "string"
    }
}
]

```

```

        "tableName": "string"
    },
    "dynamoDBv2": {
        "putItem": {
            "tableName": "string"
        },
        "roleArn": "string"
    },
    "elasticsearch": {
        "endpoint": "string",
        "id": "string",
        "index": "string",
        "roleArn": "string",
        "type": "string"
    },
    "firehose": {
        "batchMode": boolean,
        "deliveryStreamName": "string",
        "roleArn": "string",
        "separator": "string"
    },
    "http": {
        "auth": {
            "sigv4": {
                "roleArn": "string",
                "serviceName": "string",
                "signingRegion": "string"
            }
        },
        "confirmationUrl": "string",
        "headers": [
            {
                "key": "string",
                "value": "string"
            }
        ],
        "url": "string"
    },
    "iotAnalytics": {
        "batchMode": boolean,
        "channelArn": "string",
        "channelName": "string",
        "roleArn": "string"
    },
    "iotEvents": {
        "batchMode": boolean,
        "inputName": "string",
        "messageId": "string",
        "roleArn": "string"
    },
    "iotSiteWise": {
        "putAssetPropertyValueEntries": [
            {
                "assetId": "string",
                "entryId": "string",
                "propertyAlias": "string",
                "propertyId": "string",
                "propertyValues": [
                    {
                        "quality": "string",
                        "timestamp": {
                            "offsetInNanos": "string",
                            "timeInSeconds": "string"
                        },
                        "value": {
                            "booleanValue": "string",

```

```

        "doubleValue": "string",
        "integerValue": "string",
        "stringValue": "string"
    }
}
],
"roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "qos": number,
    "roleArn": "string",
    "topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",
    "url": "string"
},
"sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
},
"sqs": {

```

```

    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
},
"stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
},
"timestream": {
    "databaseName": "string",
    "dimensions": [
        {
            "name": "string",
            "value": "string"
        }
    ],
    "roleArn": "string",
    "tableName": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    }
},
"ruleDisabled": boolean,
"ruleName": "string",
"sql": "string"
},
"ruleArn": "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.

rule (p. 372)

The rule.

Type: [TopicRule \(p. 1047\)](#) object

ruleArn (p. 372)

The rule ARN.

Type: String

Errors

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetTopicRuleDestination

Service: AWS IoT

Gets information about a topic rule destination.

Requires permission to access the [GetTopicRuleDestination](#) action.

Request Syntax

```
GET /destinations/arn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

arn (p. 380)

The ARN of the topic rule destination.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "topicRuleDestination": {
    "arn": "string",
    "createdAt": number,
    "httpUrlProperties": {
      "confirmationUrl": "string"
    },
    "lastUpdatedAt": number,
    "status": "string",
    "statusReason": "string",
    "vpcProperties": {
      "roleArn": "string",
      "securityGroups": [ "string" ],
      "subnetIds": [ "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.

topicRuleDestination (p. 380)

The topic rule destination.

Type: [TopicRuleDestination \(p. 1049\)](#) object

Errors

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

GetV2LoggingOptions

Service: AWS IoT

Gets the fine grained logging options.

Requires permission to access the [GetV2LoggingOptions](#) action.

Request Syntax

```
GET /v2LoggingOptions HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "defaultLogLevel": "string",
  "disableAllLogs": boolean,
  "roleArn": "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.

[defaultLogLevel \(p. 382\)](#)

The default log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

[disableAllLogs \(p. 382\)](#)

Disables all logs.

Type: Boolean

[roleArn \(p. 382\)](#)

The IAM role ARN AWS IoT uses to write to your CloudWatch logs.

Type: String

Errors

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

NotConfiguredException

The resource is not configured.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

ListActiveViolations

Service: AWS IoT

Lists the active violations for a given Device Defender security profile.

Requires permission to access the [ListActiveViolations](#) action.

Request Syntax

```
GET /active-violations?  
behaviorCriteriaType=behaviorCriteriaType&listSuppressedAlerts=listSuppressedAlerts&maxResults=maxResults  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[behaviorCriteriaType \(p. 384\)](#)

The criteria for a behavior.

Valid Values: STATIC | STATISTICAL | MACHINE_LEARNING

[listSuppressedAlerts \(p. 384\)](#)

A list of all suppressed alerts.

[maxResults \(p. 384\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 384\)](#)

The token for the next set of results.

[securityProfileName \(p. 384\)](#)

The name of the Device Defender security profile for which violations are listed.

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

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

[thingName \(p. 384\)](#)

The name of the thing whose active violations are listed.

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

[verificationState \(p. 384\)](#)

The verification state of the violation (detect alarm).

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Request Body

The request does not have a request body.

Response Syntax

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

{
    "activeViolations": [
        {
            "behavior": {
                "criteria": {
                    "comparisonOperator": "string",
                    "consecutiveDatapointsToAlarm": number,
                    "consecutiveDatapointsToClear": number,
                    "durationSeconds": number,
                    "mlDetectionConfig": {
                        "confidenceLevel": "string"
                    },
                    "statisticalThreshold": {
                        "statistic": "string"
                    },
                    "value": {
                        "cidrs": [ "string" ],
                        "count": number,
                        "number": number,
                        "numbers": [ number ],
                        "ports": [ number ],
                        "strings": [ "string" ]
                    }
                },
                "metric": "string",
                "metricDimension": {
                    "dimensionName": "string",
                    "operator": "string"
                },
                "name": "string",
                "suppressAlerts": boolean
            },
            "lastViolationTime": number,
            "lastViolationValue": {
                "cidrs": [ "string" ],
                "count": number,
                "number": number,
                "numbers": [ number ],
                "ports": [ number ],
                "strings": [ "string" ]
            },
            "securityProfileName": "string",
            "thingName": "string",
            "verificationState": "string",
            "verificationStateDescription": "string",
            "violationEventAdditionalInfo": {
                "confidenceLevel": "string"
            },
            "violationId": "string",
            "violationStartTime": number
        }
    ],
    "nextToken": "string"
}
```

Response Elements

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

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

activeViolations (p. 385)

The list of active violations.

Type: Array of [ActiveViolation \(p. 815\)](#) objects

nextToken (p. 385)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListAttachedPolicies

Service: AWS IoT

Lists the policies attached to the specified thing group.

Requires permission to access the [ListAttachedPolicies](#) action.

Request Syntax

```
POST /attached-policies/target?marker=marker&pageSize=pageSize&recursive=recursive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[marker \(p. 387\)](#)

The token to retrieve the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 387\)](#)

The maximum number of results to be returned per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[recursive \(p. 387\)](#)

When true, recursively list attached policies.

[target \(p. 387\)](#)

The group or principal for which the policies will be listed. Valid principals are CertificateArn (`arn:aws:iot:region:accountId:cert/certificateId`), thingGroupArn (`arn:aws:iot:region:accountId:thinggroup/groupName`) and Cognitoid (`region:id`).

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextMarker": "string",
    "policies": [
        {
            "policyArn": "string",
            "policyName": "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.

[nextMarker \(p. 387\)](#)

The token to retrieve the next set of results, or ``null`` if there are no more results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[policies \(p. 387\)](#)

The policies.

Type: Array of [Policy \(p. 975\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListAuditFindings

Service: AWS IoT

Lists the findings (results) of a Device Defender audit or of the audits performed during a specified time period. (Findings are retained for 90 days.)

Requires permission to access the [ListAuditFindings](#) action.

Request Syntax

```
POST /audit/findings HTTP/1.1
Content-type: application/json

{
    "checkName": "string",
    "endTime": number,
    "listSuppressedFindings": boolean,
    "maxResults": number,
    "nextToken": "string",
    "resourceIdentifier": {
        "account": "string",
        "caCertificateId": "string",
        "clientId": "string",
        "cognitoIdentityPoolId": "string",
        "deviceCertificateArn": "string",
        "deviceCertificateId": "string",
        "iamRoleArn": "string",
        "issuerCertificateIdentifier": {
            "issuerCertificateSerialNumber": "string",
            "issuerCertificateSubject": "string",
            "issuerId": "string"
        },
        "policyVersionIdentifier": {
            "policyName": "string",
            "policyVersionId": "string"
        },
        "roleAliasArn": "string"
    },
    "startTime": number,
    "taskId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName (p. 390)

A filter to limit results to the findings for the specified audit check.

Type: String

Required: No

endTime (p. 390)

A filter to limit results to those found before the specified time. You must specify either the startTime and endTime or the taskId, but not both.

Type: Timestamp

Required: No

[listSuppressedFindings \(p. 390\)](#)

Boolean flag indicating whether only the suppressed findings or the unsuppressed findings should be listed. If this parameter isn't provided, the response will list both suppressed and unsuppressed findings.

Type: Boolean

Required: No

[maxResults \(p. 390\)](#)

The maximum number of results to return at one time. The default is 25.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 250.

Required: No

[nextToken \(p. 390\)](#)

The token for the next set of results.

Type: String

Required: No

[resourceIdentifier \(p. 390\)](#)

Information identifying the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: No

[startTime \(p. 390\)](#)

A filter to limit results to those found after the specified time. You must specify either the startTime and endTime or the taskId, but not both.

Type: Timestamp

Required: No

[taskId \(p. 390\)](#)

A filter to limit results to the audit with the specified ID. You must specify either the taskId or the startTime and endTime, but not both.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

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

Required: No

[Response Syntax](#)

HTTP/1.1 200

```
Content-type: application/json

{
    "findings": [
        {
            "checkName": "string",
            "findingId": "string",
            "findingTime": number,
            "isSuppressed": boolean,
            "nonCompliantResource": {
                "additionalInfo": {
                    "string" : "string"
                },
                "resourceIdentifier": {
                    "account": "string",
                    "caCertificateId": "string",
                    "clientId": "string",
                    "cognitoIdentityPoolId": "string",
                    "deviceCertificateArn": "string",
                    "deviceCertificateId": "string",
                    "iamRoleArn": "string",
                    "issuerCertificateIdentifier": {
                        "issuerCertificateSerialNumber": "string",
                        "issuerCertificateSubject": "string",
                        "issuerId": "string"
                    },
                    "policyVersionIdentifier": {
                        "policyName": "string",
                        "policyVersionId": "string"
                    },
                    "roleAliasArn": "string"
                },
                "resourceType": "string"
            },
            "reasonForNonCompliance": "string",
            "reasonForNonComplianceCode": "string",
            "relatedResources": [
                {
                    "additionalInfo": {
                        "string" : "string"
                    },
                    "resourceIdentifier": {
                        "account": "string",
                        "caCertificateId": "string",
                        "clientId": "string",
                        "cognitoIdentityPoolId": "string",
                        "deviceCertificateArn": "string",
                        "deviceCertificateId": "string",
                        "iamRoleArn": "string",
                        "issuerCertificateIdentifier": {
                            "issuerCertificateSerialNumber": "string",
                            "issuerCertificateSubject": "string",
                            "issuerId": "string"
                        },
                        "policyVersionIdentifier": {
                            "policyName": "string",
                            "policyVersionId": "string"
                        },
                        "roleAliasArn": "string"
                    },
                    "resourceType": "string"
                }
            ],
            "severity": "string",
            "taskId": "string",
            "taskStartTime": number
        }
    ]
}
```

```
        },
    ],
    "nextToken": "string"
}
```

Response Elements

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

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

[findings \(p. 391\)](#)

The findings (results) of the audit.

Type: Array of [AuditFinding \(p. 828\)](#) objects

[nextToken \(p. 391\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListAuditMitigationActionsExecutions

Service: AWS IoT

Gets the status of audit mitigation action tasks that were executed.

Requires permission to access the [ListAuditMitigationActionsExecutions](#) action.

Request Syntax

```
GET /audit/mitigationactions/executions?  
actionStatus=actionStatus&findingId=findingId&maxResults=maxResults&nextToken=nextToken&taskId=taskId  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[actionStatus \(p. 394\)](#)

Specify this filter to limit results to those with a specific status.

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED | SKIPPED | PENDING

[findingId \(p. 394\)](#)

Specify this filter to limit results to those that were applied to a specific audit finding.

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

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

Required: Yes

[maxResults \(p. 394\)](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 394\)](#)

The token for the next set of results.

[taskId \(p. 394\)](#)

Specify this filter to limit results to actions for a specific audit mitigation actions task.

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

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

{
    "actionsExecutions": [
        {
            "actionId": "string",
            "actionName": "string",
            "endTime": number,
            "errorCode": "string",
            "findingId": "string",
            "message": "string",
            "startTime": number,
            "status": "string",
            "taskId": "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.

[actionsExecutions \(p. 394\)](#)

A set of task execution results based on the input parameters. Details include the mitigation action applied, start time, and task status.

Type: Array of [AuditMitigationActionExecutionMetadata \(p. 830\)](#) objects

[nextToken \(p. 394\)](#)

The token for the next set of results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListAuditMitigationActionsTasks

Service: AWS IoT

Gets a list of audit mitigation action tasks that match the specified filters.

Requires permission to access the [ListAuditMitigationActionsTasks](#) action.

Request Syntax

```
GET /audit/mitigationactions/tasks?  
auditTaskId=auditTaskId&endTime=endTime&findingId=findingId&maxResults=maxResults&nextToken=nextToken&  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[auditTaskId \(p. 397\)](#)

Specify this filter to limit results to tasks that were applied to results for a specific audit.

Length Constraints: Minimum length of 1. Maximum length of 40.

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

[endTime \(p. 397\)](#)

Specify this filter to limit results to tasks that were completed or canceled on or before a specific date and time.

Required: Yes

[findingId \(p. 397\)](#)

Specify this filter to limit results to tasks that were applied to a specific audit finding.

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

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

[maxResults \(p. 397\)](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 397\)](#)

The token for the next set of results.

[startTime \(p. 397\)](#)

Specify this filter to limit results to tasks that began on or after a specific date and time.

Required: Yes

[taskStatus \(p. 397\)](#)

Specify this filter to limit results to tasks that are in a specific state.

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "tasks": [
        {
            "startTime": number,
            "taskId": "string",
            "taskStatus": "string"
        }
    ]
}
```

Response Elements

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

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

[nextToken \(p. 398\)](#)

The token for the next set of results.

Type: String

[tasks \(p. 398\)](#)

The collection of audit mitigation tasks that matched the filter criteria.

Type: Array of [AuditMitigationActionsTaskMetadata \(p. 832\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListAuditSuppressions

Service: AWS IoT

Lists your Device Defender audit listings.

Requires permission to access the [ListAuditSuppressions](#) action.

Request Syntax

```
POST /audit/suppressions/list HTTP/1.1
Content-type: application/json

{
    "ascendingOrder": boolean,
    "checkName": string,
    "maxResults": number,
    "nextToken": string,
    "resourceIdentifier": {
        "account": string,
        "caCertificateId": string,
        "clientId": string,
        "cognitoIdentityPoolId": string,
        "deviceCertificateArn": string,
        "deviceCertificateId": string,
        "iamRoleArn": string,
        "issuerCertificateIdentifier": {
            "issuerCertificateSerialNumber": string,
            "issuerCertificateSubject": string,
            "issuerId": string
        },
        "policyVersionIdentifier": {
            "policyName": string,
            "policyVersionId": string
        },
        "roleAliasArn": string
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ascendingOrder \(p. 400\)](#)

Determines whether suppressions are listed in ascending order by expiration date or not. If parameter isn't provided, ascendingOrder=true.

Type: Boolean

Required: No

[checkName \(p. 400\)](#)

An audit check name. Checks must be enabled for your account. (Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or use [UpdateAccountAuditConfiguration](#) to select which checks are enabled.)

Type: String

Required: No

[maxResults \(p. 400\)](#)

The maximum number of results to return at one time. The default is 25.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 250.

Required: No

[nextToken \(p. 400\)](#)

The token for the next set of results.

Type: String

Required: No

[resourceIdentifier \(p. 400\)](#)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: No

Response Syntax

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

{
    "nextToken": "string",
    "suppressions": [
        {
            "checkName": "string",
            "description": "string",
            "expirationDate": number,
            "resourceIdentifier": {
                "account": "string",
                "caCertificateId": "string",
                "clientId": "string",
                "cognitoIdentityPoolId": "string",
                "deviceCertificateArn": "string",
                "deviceCertificateId": "string",
                "iamRoleArn": "string",
                "issuerCertificateIdentifier": {
                    "issuerCertificateSerialNumber": "string",
                    "issuerCertificateSubject": "string",
                    "issuerId": "string"
                },
                "policyVersionIdentifier": {
                    "policyName": "string",
                    "policyVersionId": "string"
                },
                "roleAliasArn": "string"
            },
            "suppressIndefinitely": boolean
        }
    ]
}
```

}

Response Elements

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

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

[nextToken \(p. 401\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[suppressions \(p. 401\)](#)

List of audit suppressions.

Type: Array of [AuditSuppression \(p. 835\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListAuditTasks

Service: AWS IoT

Lists the Device Defender audits that have been performed during a given time period.

Requires permission to access the [ListAuditTasks](#) action.

Request Syntax

```
GET /audit/tasks?  
endTime=endTime&maxResults=maxResults&nextToken=nextToken&startTime=startTime&taskStatus=taskStatus&tas  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[endTime \(p. 403\)](#)

The end of the time period.

Required: Yes

[maxResults \(p. 403\)](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 403\)](#)

The token for the next set of results.

[startTime \(p. 403\)](#)

The beginning of the time period. Audit information is retained for a limited time (90 days). Requesting a start time prior to what is retained results in an "InvalidRequestException".

Required: Yes

[taskStatus \(p. 403\)](#)

A filter to limit the output to audits with the specified completion status: can be one of "IN_PROGRESS", "COMPLETED", "FAILED", or "CANCELED".

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

[taskType \(p. 403\)](#)

A filter to limit the output to the specified type of audit: can be one of "ON_DEMAND_AUDIT_TASK" or "SCHEDULED_AUDIT_TASK".

Valid Values: ON_DEMAND_AUDIT_TASK | SCHEDULED_AUDIT_TASK

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "nextToken": "string",
    "tasks": [
        {
            "taskId": "string",
            "taskStatus": "string",
            "taskType": "string"
        }
    ]
}
```

Response Elements

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

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

[nextToken \(p. 403\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[tasks \(p. 403\)](#)

The audits that were performed during the specified time period.

Type: Array of [AuditTaskMetadata \(p. 837\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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](#)

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

ListAuthorizers

Service: AWS IoT

Lists the authorizers registered in your account.

Requires permission to access the [ListAuthorizers](#) action.

Request Syntax

```
GET /authorizers/?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 406\)](#)

Return the list of authorizers in ascending alphabetical order.

[marker \(p. 406\)](#)

A marker used to get the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 406\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[status \(p. 406\)](#)

The status of the list authorizers request.

Valid Values: ACTIVE | INACTIVE

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "authorizers": [  
        {  
            "authorizerArn": "string",  
            "authorizerName": "string"  
        }  
    ],  
    "nextMarker": "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.

authorizers (p. 406)

The authorizers.

Type: Array of [AuthorizerSummary \(p. 842\)](#) objects

nextMarker (p. 406)

A marker used to get the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListBillingGroups

Service: AWS IoT

Lists the billing groups you have created.

Requires permission to access the [ListBillingGroups](#) action.

Request Syntax

```
GET /billing-groups?  
maxResults=maxResults&namePrefixFilter=namePrefixFilter&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 409\)](#)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[namePrefixFilter \(p. 409\)](#)

Limit the results to billing groups whose names have the given prefix.

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

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

[nextToken \(p. 409\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "billingGroups": [  
        {  
            "groupArn": "string",  
            "groupName": "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.

[billingGroups \(p. 409\)](#)

The list of billing groups.

Type: Array of [GroupNameAndArn \(p. 906\)](#) objects

[nextToken \(p. 409\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListCACertificates

Service: AWS IoT

Lists the CA certificates registered for your AWS account.

The results are paginated with a default page size of 25. You can use the returned marker to retrieve additional results.

Requires permission to access the [ListCACertificates](#) action.

Request Syntax

```
GET /cacertificates?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize&templateName=templateName  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 411\)](#)

Determines the order of the results.

[marker \(p. 411\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 411\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[templateName \(p. 411\)](#)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "certificates": [  
        {
```

```
        "certificateArn": "string",
        "certificateId": "string",
        "creationDate": number,
        "status": "string"
    }
],
"nextMarker": "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.

[certificates \(p. 411\)](#)

The CA certificates registered in your AWS account.

Type: Array of [CACertificate \(p. 862\)](#) objects

[nextMarker \(p. 411\)](#)

The current position within the list of CA certificates.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListCertificates

Service: AWS IoT

Lists the certificates registered in your AWS account.

The results are paginated with a default page size of 25. You can use the returned marker to retrieve additional results.

Requires permission to access the [ListCertificates](#) action.

Request Syntax

```
GET /certificates?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 414\)](#)

Specifies the order for results. If True, the results are returned in ascending order, based on the creation date.

[marker \(p. 414\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 414\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "certificates": [
    {
      "certificateArn": "string",
      "certificateId": "string",
      "certificateMode": "string",
      "creationDate": number,
      "status": "string"
    }
  ],
  "nextMarker": "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.

certificates (p. 414)

The descriptions of the certificates.

Type: Array of [Certificate \(p. 866\)](#) objects

nextMarker (p. 414)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListCertificatesByCA

Service: AWS IoT

List the device certificates signed by the specified CA certificate.

Requires permission to access the [ListCertificatesByCA](#) action.

Request Syntax

```
GET /certificates-by-ca/caCertificateId?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 417\)](#)

Specifies the order for results. If True, the results are returned in ascending order, based on the creation date.

[caCertificateId \(p. 417\)](#)

The ID of the CA certificate. This operation will list all registered device certificate that were signed by this CA certificate.

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[marker \(p. 417\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 417\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "certificates": [  
        {
```

```
        "certificateArn": "string",
        "certificateId": "string",
        "certificateMode": "string",
        "creationDate": number,
        "status": "string"
    }
],
"nextMarker": "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.

certificates (p. 417)

The device certificates signed by the specified CA certificate.

Type: Array of [Certificate \(p. 866\)](#) objects

nextMarker (p. 417)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListCustomMetrics

Service: AWS IoT

Lists your Device Defender detect custom metrics.

Requires permission to access the [ListCustomMetrics](#) action.

Request Syntax

```
GET /custom-metrics?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 420)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 420)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "metricNames": [ "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.

metricNames (p. 420)

The name of the custom metric.

Type: Array of strings

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

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

nextToken (p. 420)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListDetectMitigationActionsExecutions

Service: AWS IoT

Lists mitigation actions executions for a Device Defender ML Detect Security Profile.

Requires permission to access the [ListDetectMitigationActionsExecutions](#) action.

Request Syntax

```
GET /detect/mitigationactions/executions?  
endTime=endTime&maxResults=maxResults&nextToken=nextToken&startTime=startTime&taskId=taskId&thingName=thingName  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[endTime](#) (p. 422)

The end of the time period for which ML Detect mitigation actions executions are returned.

[maxResults](#) (p. 422)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#) (p. 422)

The token for the next set of results.

[startTime](#) (p. 422)

A filter to limit results to those found after the specified time. You must specify either the startTime and endTime or the taskId, but not both.

[taskId](#) (p. 422)

The unique identifier of the task.

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

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

[thingName](#) (p. 422)

The name of the thing whose mitigation actions are listed.

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

[violationId](#) (p. 422)

The unique identifier of the violation.

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

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

Request Body

The request does not have a request body.

Response Syntax

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

{
  "actionsExecutions": [
    {
      "actionName": "string",
      "errorCode": "string",
      "executionEndDate": number,
      "executionStartDate": number,
      "message": "string",
      "status": "string",
      "taskId": "string",
      "thingName": "string",
      "violationId": "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.

actionsExecutions ([p. 423](#))

List of actions executions.

Type: Array of [DetectMitigationActionExecution](#) ([p. 883](#)) objects

nextToken ([p. 423](#))

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListDetectMitigationActionsTasks

Service: AWS IoT

List of Device Defender ML Detect mitigation actions tasks.

Requires permission to access the [ListDetectMitigationActionsTasks](#) action.

Request Syntax

```
GET /detect/mitigationactions/tasks?  
endTime=endTime&maxResults=maxResults&nextToken=nextToken&startTime=startTime HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[endTime \(p. 425\)](#)

The end of the time period for which ML Detect mitigation actions tasks are returned.

Required: Yes

[maxResults \(p. 425\)](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 425\)](#)

The token for the next set of results.

[startTime \(p. 425\)](#)

A filter to limit results to those found after the specified time. You must specify either the startTime and endTime or the taskId, but not both.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "nextToken": "string",  
    "tasks": [  
        {  
            "actionsDefinition": [  
                {  
                    "actionParams": {  
                        "addThingsToThingGroupParams": {  
                            "overrideDynamicGroups": boolean,  
                            "thingGroupNames": [ "string" ]  
                        }  
                    }  
                }  
            }  
        }  
    ]  
}
```

```

        },
        "enableIoTLoggingParams": {
            "logLevel": "string",
            "roleArnForLogging": "string"
        },
        "publishFindingToSnsParams": {
            "topicArn": "string"
        },
        "replaceDefaultPolicyVersionParams": {
            "templateName": "string"
        },
        "updateCACertificateParams": {
            "action": "string"
        },
        "updateDeviceCertificateParams": {
            "action": "string"
        }
    },
    "id": "string",
    "name": "string",
    "roleArn": "string"
}
],
"onlyActiveViolationsIncluded": boolean,
"suppressedAlertsIncluded": boolean,
"target": {
    "behaviorName": "string",
    "securityProfileName": "string",
    "violationIds": [ "string" ]
},
"taskEndTime": number,
"taskId": "string",
"taskStartTime": number,
"taskStatistics": {
    "actionsExecuted": number,
    "actionsFailed": number,
    "actionsSkipped": number
},
"taskStatus": "string",
"violationEventOccurrenceRange": {
    "endTime": number,
    "startTime": number
}
}
]
}

```

Response Elements

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

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

[nextToken \(p. 425\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[tasks \(p. 425\)](#)

The collection of ML Detect mitigation tasks that matched the filter criteria.

Type: Array of [DetectMitigationActionsTaskSummary \(p. 886\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListDimensions

Service: AWS IoT

List the set of dimensions that are defined for your AWS accounts.

Requires permission to access the [ListDimensions](#) action.

Request Syntax

```
GET /dimensions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 428\)](#)

The maximum number of results to retrieve at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 428\)](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "dimensionNames": [ "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.

[dimensionNames \(p. 428\)](#)

A list of the names of the defined dimensions. Use [DescribeDimension](#) to get details for a dimension.

Type: Array of strings

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

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

[nextToken \(p. 428\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListDomainConfigurations

Service: AWS IoT

Gets a list of domain configurations for the user. This list is sorted alphabetically by domain configuration name.

Requires permission to access the [ListDomainConfigurations](#) action.

Request Syntax

```
GET /domainConfigurations?marker=marker&pageSize=pageSize&serviceType=serviceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[marker](#) (p. 430)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize](#) (p. 430)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[serviceType](#) (p. 430)

The type of service delivered by the endpoint.

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

Request Body

The request does not have a request body.

Response Syntax

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

{
  "domainConfigurations": [
    {
      "domainConfigurationArn": "string",
      "domainConfigurationName": "string",
      "serviceType": "string"
    }
  ],
  "nextMarker": "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.

domainConfigurations (p. 430)

A list of objects that contain summary information about the user's domain configurations.

Type: Array of [DomainConfigurationSummary \(p. 891\)](#) objects

nextMarker (p. 430)

The marker for the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

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

ListFleetMetrics

Service: AWS IoT

Lists all your fleet metrics.

Requires permission to access the [ListFleetMetrics](#) action.

Request Syntax

```
GET /fleet-metrics?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 433)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 433)

To retrieve the next set of results, the nextToken value from a previous response; otherwise null to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "fleetMetrics": [
    {
      "metricArn": "string",
      "metricName": "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.

fleetMetrics (p. 433)

The list of fleet metrics objects.

Type: Array of [FleetMetricNameAndArn](#) (p. 905) objects

[nextToken \(p. 433\)](#)

The token for the next set of results. Will not be returned if the operation has returned all results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListIndices

Service: AWS IoT

Lists the search indices.

Requires permission to access the [ListIndices](#) action.

Request Syntax

```
GET /indices?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 435\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 500.

[nextToken \(p. 435\)](#)

The token used to get the next set of results, or null if there are no additional results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "indexNames": [ "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.

[indexNames \(p. 435\)](#)

The index names.

Type: Array of strings

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

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

[nextToken \(p. 435\)](#)

The token used to get the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListJobExecutionsForJob

Service: AWS IoT

Lists the job executions for a job.

Requires permission to access the [ListJobExecutionsForJob](#) action.

Request Syntax

```
GET /jobs/jobId/things?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[jobId](#) (p. 437)

The unique identifier you assigned to this job when it was created.

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

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

Required: Yes

[maxResults](#) (p. 437)

The maximum number of results to be returned per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#) (p. 437)

The token to retrieve the next set of results.

[status](#) (p. 437)

The status of the job.

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Request Body

The request does not have a request body.

Response Syntax

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

{
  "executionSummaries": [
    {
      "jobExecutionSummary": {
        "executionNumber": number,
        "lastUpdatedAt": number,
        "queuedAt": number,
        "retryAttempt": number,
        "status": status
      }
    }
  ]
}
```

```
        "startedAt": number,
        "status": "string"
    },
    "thingArn": "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.

[executionSummaries \(p. 437\)](#)

A list of job execution summaries.

Type: Array of [JobExecutionSummaryForJob \(p. 933\)](#) objects

[nextToken \(p. 437\)](#)

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

ListJobExecutionsForThing

Service: AWS IoT

Lists the job executions for the specified thing.

Requires permission to access the [ListJobExecutionsForThing](#) action.

Request Syntax

```
GET /things/thingName/jobs?  
jobId=jobId&maxResults=maxResults&namespaceId=namespaceId&nextToken=nextToken&status=status  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobId (p. 440)

The unique identifier you assigned to this job when it was created.

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

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

maxResults (p. 440)

The maximum number of results to be returned per request.

Valid Range: Minimum value of 1. Maximum value of 250.

namespaceId (p. 440)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

```
$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/
```

Note

The namespaceId feature is in public preview.

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

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

nextToken (p. 440)

The token to retrieve the next set of results.

status (p. 440)

An optional filter that lets you search for jobs that have the specified status.

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

thingName (p. 440)

The thing name.

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

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

{
    "executionSummaries": [
        {
            "jobExecutionSummary": {
                "executionNumber": number,
                "lastUpdatedAt": number,
                "queuedAt": number,
                "retryAttempt": number,
                "startedAt": number,
                "status": "string"
            },
            "jobId": "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.

[executionSummaries \(p. 441\)](#)

A list of job execution summaries.

Type: Array of [JobExecutionSummaryForThing \(p. 934\)](#) objects

[nextToken \(p. 441\)](#)

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

ListJobs

Service: AWS IoT

Lists jobs.

Requires permission to access the [ListJobs](#) action.

Request Syntax

```
GET /jobs?  
maxResults=maxResults&namespaceId=namespaceId&nextToken=nextToken&status=status&targetSelection=targetSelection  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 443\)](#)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[namespaceId \(p. 443\)](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is in public preview.

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

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

[nextToken \(p. 443\)](#)

The token to retrieve the next set of results.

[status \(p. 443\)](#)

An optional filter that lets you search for jobs that have the specified status.

Valid Values: IN_PROGRESS | CANCELED | COMPLETED | DELETION_IN_PROGRESS

[targetSelection \(p. 443\)](#)

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a thing when the thing is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Valid Values: CONTINUOUS | SNAPSHOT

[thingGroupId \(p. 443\)](#)

A filter that limits the returned jobs to those for the specified group.

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

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

[thingGroupName \(p. 443\)](#)

A filter that limits the returned jobs to those for the specified group.

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

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

Request Body

The request does not have a request body.

Response Syntax

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

{
  "jobs": [
    {
      "completedAt": number,
      "createdAt": number,
      "isConcurrent": boolean,
      "jobArn": "string",
      "jobId": "string",
      "lastUpdatedAt": number,
      "status": "string",
      "targetSelection": "string",
      "thingGroupId": "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.

[jobs \(p. 444\)](#)

A list of jobs.

Type: Array of [JobSummary \(p. 937\)](#) objects

[nextToken \(p. 444\)](#)

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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

ListJobTemplates

Service: AWS IoT

Returns a list of job templates.

Requires permission to access the [ListJobTemplates](#) action.

Request Syntax

```
GET /job-templates?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 446\)](#)

The maximum number of results to return in the list.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 446\)](#)

The token to use to return the next set of results in the list.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "jobTemplates": [
    {
      "createdAt": number,
      "description": "string",
      "jobTemplateArn": "string",
      "jobTemplateId": "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.

[jobTemplates \(p. 446\)](#)

A list of objects that contain information about the job templates.

Type: Array of [JobTemplateSummary \(p. 939\)](#) objects

[nextToken \(p. 446\)](#)

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListManagedJobTemplates

Service: AWS IoT

Returns a list of managed job templates.

Request Syntax

```
GET /managed-job-templates?  
maxResults=maxResults&nextToken=nextToken&templateName=templateName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 448\)](#)

Maximum number of entries that can be returned.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 448\)](#)

The token to retrieve the next set of results.

[templateName \(p. 448\)](#)

An optional parameter for template name. If specified, only the versions of the managed job templates that have the specified template name will be returned.

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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "managedJobTemplates": [  
        {  
            "description": "string",  
            "environments": [ "string" ],  
            "templateArn": "string",  
            "templateName": "string",  
            "templateVersion": "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.

managedJobTemplates (p. 448)

A list of managed job templates that are returned.

Type: Array of [ManagedJobTemplateSummary \(p. 952\)](#) objects

nextToken (p. 448)

The token to retrieve the next set of results.

Type: String

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListMetricValues

Service: AWS IoT

Lists the values reported for an AWS IoT Device Defender metric (device-side metric, cloud-side metric, or custom metric) by the given thing during the specified time period.

Request Syntax

```
GET /metric-values?  
dimensionName=dimensionName&dimensionValueOperator=dimensionValueOperator&endTime=endTime&maxResults=maxResults  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

dimensionName (p. 450)

The dimension name.

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

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

dimensionValueOperator (p. 450)

The dimension value operator.

Valid Values: IN | NOT_IN

endTime (p. 450)

The end of the time period for which metric values are returned.

Required: Yes

maxResults (p. 450)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

metricName (p. 450)

The name of the security profile metric for which values are returned.

Required: Yes

nextToken (p. 450)

The token for the next set of results.

startTime (p. 450)

The start of the time period for which metric values are returned.

Required: Yes

thingName (p. 450)

The name of the thing for which security profile metric values are returned.

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
Content-type: application/json

{
  "metricDatumList": [
    {
      "timestamp": number,
      "value": {
        "cidrs": [ "string" ],
        "count": number,
        "number": number,
        "numbers": [ number ],
        "ports": [ number ],
        "strings": [ "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.

metricDatumList (p. 451)

The data the thing reports for the metric during the specified time period.

Type: Array of [MetricDatum \(p. 954\)](#) objects

nextToken (p. 451)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListMitigationActions

Service: AWS IoT

Gets a list of all mitigation actions that match the specified filter criteria.

Requires permission to access the [ListMitigationActions](#) action.

Request Syntax

```
GET /mitigationactions/actions?  
actionType=actionType&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[actionType \(p. 453\)](#)

Specify a value to limit the result to mitigation actions with a specific action type.

Valid Values: UPDATE_DEVICE_CERTIFICATE | UPDATE_CA_CERTIFICATE | ADD_THINGS_TO_THING_GROUP | REPLACE_DEFAULT_POLICY_VERSION | ENABLE_IOT_LOGGING | PUBLISH_FINDING_TO_SNS

[maxResults \(p. 453\)](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 453\)](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "actionIdentifiers": [  
        {  
            "actionArn": "string",  
            "actionName": "string",  
            "creationDate": number  
        }  
    ],  
    "nextToken": "string"  
}
```

Response Elements

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

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

[actionIdentifiers \(p. 453\)](#)

A set of actions that matched the specified filter criteria.

Type: Array of [MitigationActionIdentifier \(p. 960\)](#) objects

[nextToken \(p. 453\)](#)

The token for the next set of results.

Type: String

Errors

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

[InvalidRequestException](#)

The request is not valid.

HTTP Status Code: 400

[ThrottlingException](#)

The rate exceeds the limit.

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

ListOTAUpdates

Service: AWS IoT

Lists OTA updates.

Requires permission to access the [ListOTAUpdates](#) action.

Request Syntax

```
GET /otaUpdates?maxResults=maxResults&nextToken=nextToken&otaUpdateStatus=otaUpdateStatus
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 455\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 455\)](#)

A token used to retrieve the next set of results.

[otaUpdateStatus \(p. 455\)](#)

The OTA update job status.

Valid Values: CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_COMPLETE | CREATE_FAILED

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "otaUpdates": [
    {
      "creationDate": number,
      "otaUpdateArn": "string",
      "otaUpdateId": "string"
    }
  ]
}
```

Response Elements

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

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

nextToken (p. 455)

A token to use to get the next set of results.

Type: String

otaUpdates (p. 455)

A list of OTA update jobs.

Type: Array of [OTAUpdateSummary \(p. 971\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListOutgoingCertificates

Service: AWS IoT

Lists certificates that are being transferred but not yet accepted.

Requires permission to access the [ListOutgoingCertificates](#) action.

Request Syntax

```
GET /certificates-out-going?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 458\)](#)

Specifies the order for results. If True, the results are returned in ascending order, based on the creation date.

[marker \(p. 458\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 458\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextMarker": "string",
  "outgoingCertificates": [
    {
      "certificateArn": "string",
      "certificateId": "string",
      "creationDate": number,
      "transferDate": number,
      "transferMessage": "string",
      "transferredTo": "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.

[nextMarker \(p. 458\)](#)

The marker for the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[outgoingCertificates \(p. 458\)](#)

The certificates that are being transferred but not yet accepted.

Type: Array of [OutgoingCertificate \(p. 972\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListPolicies

Service: AWS IoT

Lists your policies.

Requires permission to access the [ListPolicies](#) action.

Request Syntax

```
GET /policies?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 461\)](#)

Specifies the order for results. If true, the results are returned in ascending creation order.

[marker \(p. 461\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 461\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextMarker": "string",
  "policies": [
    {
      "policyArn": "string",
      "policyName": "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.

[nextMarker \(p. 461\)](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[policies \(p. 461\)](#)

The descriptions of the policies.

Type: Array of [Policy \(p. 975\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListPolicyPrincipals

Service: AWS IoT

Lists the principals associated with the specified policy.

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [ListTargetsForPolicy \(p. 498\)](#) instead.

Requires permission to access the [ListPolicyPrincipals](#) action.

Request Syntax

```
GET /policy-principals?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize
HTTP/1.1
x-amzn-iot-policy: policyName
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 464\)](#)

Specifies the order for results. If true, the results are returned in ascending creation order.

[marker \(p. 464\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 464\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[policyName \(p. 464\)](#)

The policy name.

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

Pattern: [\w+=,.@-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
    "nextMarker": "string",
    "principals": [ "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.

[nextMarker \(p. 464\)](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[principals \(p. 464\)](#)

The descriptions of the principals.

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListPolicyVersions

Service: AWS IoT

Lists the versions of the specified policy and identifies the default version.

Requires permission to access the [ListPolicyVersions](#) action.

Request Syntax

```
GET /policies/policyName/version HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyName (p. 467)

The policy name.

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

Pattern: [\w+=,.@-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "policyVersions": [
    {
      "createDate": number,
      "isDefaultVersion": boolean,
      "versionId": "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.

policyVersions (p. 467)

The policy versions.

Type: Array of [PolicyVersion](#) (p. 976) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListPrincipalPolicies

Service: AWS IoT

Lists the policies attached to the specified principal. If you use an Cognito identity, the ID must be in [AmazonCognito Identity format](#).

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [ListAttachedPolicies \(p. 387\)](#) instead.

Requires permission to access the [ListPrincipalPolicies](#) action.

Request Syntax

```
GET /principal-policies?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize
HTTP/1.1
x-amzn-iot-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 469\)](#)

Specifies the order for results. If true, results are returned in ascending creation order.

[marker \(p. 469\)](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 469\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[principal \(p. 469\)](#)

The principal. Valid principals are CertificateArn (`arn:aws:iot:region:accountId:cert/certificateId`), thingGroupArn (`arn:aws:iot:region:accountId:thinggroup/groupName`) and Cognitoid (`region:id`).

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextMarker": "string",
    "policies": [
```

```
    {
        "policyArn": "string",
        "policyName": "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.

[nextMarker \(p. 469\)](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[policies \(p. 469\)](#)

The policies.

Type: Array of [Policy \(p. 975\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListPrincipalThings

Service: AWS IoT

Lists the things associated with the specified principal. A principal can be X.509 certificates, IAM users, groups, and roles, Amazon Cognito identities or federated identities.

Requires permission to access the [ListPrincipalThings](#) action.

Request Syntax

```
GET /principals/things?maxResults=maxResults&nextToken=nextToken HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 472\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 472\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[principal \(p. 472\)](#)

The principal.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "things": [ "string" ]
}
```

Response Elements

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

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

[nextToken \(p. 472\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String
[things \(p. 472\)](#)

The things.

Type: Array of strings

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

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

ListProvisioningTemplates

Service: AWS IoT

Lists the provisioning templates in your AWS account.

Requires permission to access the [ListProvisioningTemplates](#) action.

Request Syntax

```
GET /provisioning-templates?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 475\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 475\)](#)

A token to retrieve the next set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "templates": [
        {
            "creationDate": number,
            "description": "string",
            "enabled": boolean,
            "lastModifiedDate": number,
            "templateArn": "string",
            "templateName": "string",
            "type": "string"
        }
    ]
}
```

Response Elements

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

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

[nextToken \(p. 475\)](#)

A token to retrieve the next set of results.

Type: String

[templates \(p. 475\)](#)

A list of provisioning templates

Type: Array of [ProvisioningTemplateSummary \(p. 980\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListProvisioningTemplateVersions

Service: AWS IoT

A list of provisioning template versions.

Requires permission to access the [ListProvisioningTemplateVersions](#) action.

Request Syntax

```
GET /provisioning-templates/templateName/versions?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 477\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 477\)](#)

A token to retrieve the next set of results.

[templateName \(p. 477\)](#)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "versions": [
    {
      "creationDate": number,
      "isDefaultVersion": boolean,
      "versionId": number
    }
  ]
}
```

Response Elements

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

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

nextToken (p. 477)

A token to retrieve the next set of results.

Type: String

versions (p. 477)

The list of provisioning template versions.

Type: Array of [ProvisioningTemplateVersionSummary \(p. 982\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListRelatedResourcesForAuditFinding

Service: AWS IoT

The related resources of an Audit finding. The following resources can be returned from calling this API:

- DEVICE_CERTIFICATE
- CA_CERTIFICATE
- IOT_POLICY
- COGNITO_IDENTITY_POOL
- CLIENT_ID
- ACCOUNT_SETTINGS
- ROLE_ALIAS
- IAM_ROLE
- ISSUER_CERTIFICATE

Note

This API is similar to [DescribeAuditFinding's RelatedResources](#) but provides pagination and is not limited to 10 resources. When calling [DescribeAuditFinding](#) for the intermediate CA revoked for active device certificates check, RelatedResources will not be populated. You must use this API, [ListRelatedResourcesForAuditFinding](#), to list the certificates.

Request Syntax

```
GET /audit/relatedResources?findingId=findingId&maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[findingId \(p. 480\)](#)

The finding Id.

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

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

Required: Yes

[maxResults \(p. 480\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 480\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "relatedResources": [
        {
            "additionalInfo": {
                "string" : "string"
            },
            "resourceIdentifier": {
                "account": "string",
                "caCertificateId": "string",
                "clientId": "string",
                "cognitoIdentityPoolId": "string",
                "deviceCertificateArn": "string",
                "deviceCertificateId": "string",
                "iamRoleArn": "string",
                "issuerCertificateIdentifier": {
                    "issuerCertificateSerialNumber": "string",
                    "issuerCertificateSubject": "string",
                    "issuerId": "string"
                },
                "policyVersionIdentifier": {
                    "policyName": "string",
                    "policyVersionId": "string"
                },
                "roleAliasArn": "string"
            },
            "resourceType": "string"
        }
    ]
}
```

Response Elements

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

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

[nextToken \(p. 481\)](#)

A token that can be used to retrieve the next set of results, or null for the first API call.

Type: String

[relatedResources \(p. 481\)](#)

The related resources.

Type: Array of [RelatedResource \(p. 989\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListRoleAliases

Service: AWS IoT

Lists the role aliases registered in your account.

Requires permission to access the [ListRoleAliases](#) action.

Request Syntax

```
GET /role-aliases?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 483\)](#)

Return the list of role aliases in ascending alphabetical order.

[marker \(p. 483\)](#)

A marker used to get the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 483\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextMarker": "string",
    "roleAliases": [ "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.

[nextMarker \(p. 483\)](#)

A marker used to get the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[roleAliases \(p. 483\)](#)

The role aliases.

Type: Array of strings

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

Pattern: [\w=,@-]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListScheduledAudits

Service: AWS IoT

Lists all of your scheduled audits.

Requires permission to access the [ListScheduledAudits](#) action.

Request Syntax

```
GET /audit/scheduledaudits?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 486\)](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 486\)](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "scheduledAudits": [
    {
      "dayOfMonth": "string",
      "dayOfWeek": "string",
      "frequency": "string",
      "scheduledAuditArn": "string",
      "scheduledAuditName": "string"
    }
  ]
}
```

Response Elements

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

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

[nextToken \(p. 486\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[scheduledAudits \(p. 486\)](#)

The list of scheduled audits.

Type: Array of [ScheduledAuditMetadata \(p. 1001\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

ListSecurityProfiles

Service: AWS IoT

Lists the Device Defender security profiles you've created. You can filter security profiles by dimension or custom metric.

Requires permission to access the [ListSecurityProfiles](#) action.

Note

dimensionName and metricName cannot be used in the same request.

Request Syntax

```
GET /security-profiles?  
dimensionName=dimensionName&maxResults=maxResults&metricName=metricName&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[dimensionName \(p. 488\)](#)

A filter to limit results to the security profiles that use the defined dimension. Cannot be used with metricName

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

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

[maxResults \(p. 488\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[metricName \(p. 488\)](#)

The name of the custom metric. Cannot be used with dimensionName.

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

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

[nextToken \(p. 488\)](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

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

```
"nextToken": "string",
"securityProfileIdentifiers": [
    {
        "arn": "string",
        "name": "string"
    }
]
```

Response Elements

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

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

[nextToken \(p. 488\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[securityProfileIdentifiers \(p. 488\)](#)

A list of security profile identifiers (names and ARNs).

Type: Array of [SecurityProfileIdentifier \(p. 1003\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListSecurityProfilesForTarget

Service: AWS IoT

Lists the Device Defender security profiles attached to a target (thing group).

Requires permission to access the [ListSecurityProfilesForTarget](#) action.

Request Syntax

```
GET /security-profiles-for-target?  
maxResults=maxResults&nextToken=nextToken&recursive=recursive&securityProfileTargetArn=securityProfileTargetArn  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 491\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 491\)](#)

The token for the next set of results.

[recursive \(p. 491\)](#)

If true, return child groups too.

[securityProfileTargetArn \(p. 491\)](#)

The ARN of the target (thing group) whose attached security profiles you want to get.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "nextToken": "string",  
    "securityProfileTargetMappings": [  
        {  
            "securityProfileIdentifier": {  
                "arn": "string",  
                "name": "string"  
            },  
            "target": {  
                "arn": "string"  
            }  
        }  
    ]  
}
```

}

Response Elements

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

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

[nextToken \(p. 491\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[securityProfileTargetMappings \(p. 491\)](#)

A list of security profiles and their associated targets.

Type: Array of [SecurityProfileTargetMapping \(p. 1005\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListStreams

Service: AWS IoT

Lists all of the streams in your AWS account.

Requires permission to access the [ListStreams](#) action.

Request Syntax

```
GET /streams?isAscendingOrder=ascendingOrder&maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder \(p. 494\)](#)

Set to true to return the list of streams in ascending order.

[maxResults \(p. 494\)](#)

The maximum number of results to return at a time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 494\)](#)

A token used to get the next set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "streams": [
    {
      "description": "string",
      "streamArn": "string",
      "streamId": "string",
      "streamVersion": number
    }
  ]
}
```

Response Elements

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

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

[nextToken \(p. 494\)](#)

A token used to get the next set of results.

Type: String

[streams \(p. 494\)](#)

A list of streams.

Type: Array of [StreamSummary \(p. 1020\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListTagsForResource

Service: AWS IoT

Lists the tags (metadata) you have assigned to the resource.

Requires permission to access the [ListTagsForResource](#) action.

Request Syntax

```
GET /tags?nextToken=nextToken&resourceArn=resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[nextToken \(p. 496\)](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

[resourceArn \(p. 496\)](#)

The ARN of the resource.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Response Elements

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

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

[nextToken \(p. 496\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

[tags \(p. 496\)](#)

The list of tags assigned to the resource.

Type: Array of [Tag \(p. 1021\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListTargetsForPolicy

Service: AWS IoT

List targets for the specified policy.

Requires permission to access the [ListTargetsForPolicy](#) action.

Request Syntax

```
POST /policy-targets/policyName?marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[marker \(p. 498\)](#)

A marker used to get the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

[pageSize \(p. 498\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[policyName \(p. 498\)](#)

The policy name.

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

Pattern: [\w+=,.@-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextMarker": "string",
    "targets": [ "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.

nextMarker (p. 498)

A marker used to get the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+={0,2}

targets (p. 498)

The policy targets.

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListTargetsForSecurityProfile

Service: AWS IoT

Lists the targets (thing groups) associated with a given Device Defender security profile.

Requires permission to access the [ListTargetsForSecurityProfile](#) action.

Request Syntax

```
GET /security-profiles/securityProfileName/targets?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 501\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 501\)](#)

The token for the next set of results.

[securityProfileName \(p. 501\)](#)

The security profile.

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

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  
  
{  
    "nextToken": "string",  
    "securityProfileTargets": [  
        {  
            "arn": "string"  
        }  
    ]  
}
```

Response Elements

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

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

[nextToken \(p. 501\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[securityProfileTargets \(p. 501\)](#)

The thing groups to which the security profile is attached.

Type: Array of [SecurityProfileTarget \(p. 1004\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListThingGroups

Service: AWS IoT

List the thing groups in your account.

Requires permission to access the [ListThingGroups](#) action.

Request Syntax

```
GET /thing-groups?  
maxResults=maxResults&namePrefixFilter=namePrefixFilter&nextToken=nextToken&parentGroup=parentGroup&rec  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 503\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[namePrefixFilter \(p. 503\)](#)

A filter that limits the results to those with the specified name prefix.

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

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

[nextToken \(p. 503\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[parentGroup \(p. 503\)](#)

A filter that limits the results to those with the specified parent group.

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

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

[recursive \(p. 503\)](#)

If true, return child groups as well.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

```
{  
    "nextToken": "string",
```

```
"thingGroups": [  
    {  
        "groupArn": "string",  
        "groupName": "string"  
    }  
]
```

Response Elements

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

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

[nextToken \(p. 503\)](#)

The token to use to get the next set of results. Will not be returned if operation has returned all results.

Type: String

[thingGroups \(p. 503\)](#)

The thing groups.

Type: Array of [GroupNameAndArn \(p. 906\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListThingGroupsForThing

Service: AWS IoT

List the thing groups to which the specified thing belongs.

Requires permission to access the [ListThingGroupsForThing](#) action.

Request Syntax

```
GET /things/thingName/thing-groups?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 506\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 506\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[thingName \(p. 506\)](#)

The thing name.

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

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

{
    "nextToken": "string",
    "thingGroups": [
        {
            "groupArn": "string",
            "groupName": "string"
        }
    ]
}
```

Response Elements

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

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

nextToken (p. 506)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

thingGroups (p. 506)

The thing groups.

Type: Array of [GroupNameAndArn \(p. 906\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListThingPrincipals

Service: AWS IoT

Lists the principals associated with the specified thing. A principal can be X.509 certificates, IAM users, groups, and roles, Amazon Cognito identities or federated identities.

Requires permission to access the [ListThingPrincipals](#) action.

Request Syntax

```
GET /things/thingName/principals?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 508\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 508\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[thingName \(p. 508\)](#)

The name of the thing.

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

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

{
    "nextToken": "string",
    "principals": [ "string" ]
}
```

Response Elements

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

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

[nextToken \(p. 508\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

[principals \(p. 508\)](#)

The principals associated with the thing.

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

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

ListThingRegistrationTaskReports

Service: AWS IoT

Information about the thing registration tasks.

Request Syntax

```
GET /thing-registration-tasks/taskId/reports?  
maxResults=maxResults&nextToken=nextToken&reportType=reportType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 511)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 511)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

reportType (p. 511)

The type of task report.

Valid Values: ERRORS | RESULTS

Required: Yes

taskId (p. 511)

The id of the task.

Length Constraints: Maximum length of 40.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "nextToken": "string",  
    "reportType": "string",  
    "resourceLinks": [ "string" ]  
}
```

Response Elements

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

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

nextToken (p. 511)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

reportType (p. 511)

The type of task report.

Type: String

Valid Values: `ERRORS` | `RESULTS`

resourceLinks (p. 511)

Links to the task resources.

Type: Array of strings

Length Constraints: Maximum length of 65535.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

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

ListThingRegistrationTasks

Service: AWS IoT

List bulk thing provisioning tasks.

Requires permission to access the [ListThingRegistrationTasks](#) action.

Request Syntax

```
GET /thing-registration-tasks?maxResults=maxResults&nextToken=nextToken&status=status
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 514\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 514\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[status \(p. 514\)](#)

The status of the bulk thing provisioning task.

Valid Values: InProgress | Completed | Failed | Cancelled | Cancelling

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "taskIds": [ "string" ]
}
```

Response Elements

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

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

[nextToken \(p. 514\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

taskIds (p. 514)

A list of bulk thing provisioning task IDs.

Type: Array of strings

Length Constraints: Maximum length of 40.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListThings

Service: AWS IoT

Lists your things. Use the **attributeName** and **attributeValue** parameters to filter your things. For example, calling ListThings with attributeName=Color and attributeValue=Red retrieves all things in the registry that contain an attribute **Color** with the value **Red**. For more information, see [List Things](#) from the *AWS IoT Core Developer Guide*.

Requires permission to access the [ListThings](#) action.

Note

You will not be charged for calling this API if an Access denied error is returned. You will also not be charged if no attributes or pagination token was provided in request and no pagination token and no results were returned.

Request Syntax

```
GET /things?  
attributeName=attributeName&attributeValue=attributeValue&maxResults=maxResults&nextToken=nextToken&thingType=thingType  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attributeName ([p. 516](#))

The attribute name used to search for things.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_.@/:#-]+

attributeValue ([p. 516](#))

The attribute value used to search for things.

Length Constraints: Maximum length of 800.

Pattern: [a-zA-Z0-9_.@/:#-]*

maxResults ([p. 516](#))

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken ([p. 516](#))

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

thingTypeName ([p. 516](#))

The name of the thing type used to search for things.

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

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

[usePrefixAttributeValue \(p. 516\)](#)

When true, the action returns the thing resources with attribute values that start with the attributeValue provided.

When false, or not present, the action returns only the thing resources with attribute values that match the entire attributeValue provided.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "things": [
    {
      "attributes": {
        "string" : "string"
      },
      "thingArn": "string",
      "thingName": "string",
      "thingTypeName": "string",
      "version": number
    }
  ]
}
```

Response Elements

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

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

[nextToken \(p. 517\)](#)

The token to use to get the next set of results. Will not be returned if operation has returned all results.

Type: String

[things \(p. 517\)](#)

The things.

Type: Array of [ThingAttribute \(p. 1026\)](#) objects

Errors

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListThingsInBillingGroup

Service: AWS IoT

Lists the things you have added to the given billing group.

Requires permission to access the [ListThingsInBillingGroup](#) action.

Request Syntax

```
GET /billing-groups/billingGroupName/things?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName \(p. 519\)](#)

The name of the billing group.

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

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

Required: Yes

[maxResults \(p. 519\)](#)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 519\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "things": [ "string" ]
}
```

Response Elements

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

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

[nextToken \(p. 519\)](#)

The token to use to get the next set of results. Will not be returned if operation has returned all results.

Type: String

[things \(p. 519\)](#)

A list of things in the billing group.

Type: Array of strings

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListThingsInThingGroup

Service: AWS IoT

Lists the things in the specified group.

Requires permission to access the [ListThingsInThingGroup](#) action.

Request Syntax

```
GET /thing-groups/thingGroupName/things?  
maxResults=maxResults&nextToken=nextToken&recursive=recursive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 521\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 521\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[recursive \(p. 521\)](#)

When true, list things in this thing group and in all child groups as well.

[thingGroupName \(p. 521\)](#)

The thing group name.

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

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  
  
{  
    "nextToken": "string",  
    "things": [ "string" ]  
}
```

Response Elements

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

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

[nextToken \(p. 521\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

[things \(p. 521\)](#)

The things in the specified thing group.

Type: Array of strings

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ListThingTypes

Service: AWS IoT

Lists the existing thing types.

Requires permission to access the [ListThingTypes](#) action.

Request Syntax

```
GET /thing-types?maxResults=maxResults&nextToken=nextToken&thingTypeName=thingTypeName
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 523\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 523\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[thingTypeName \(p. 523\)](#)

The name of the thing type.

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

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

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "thingTypes": [
        {
            "thingTypeArn": "string",
            "thingTypeMetadata": {
                "creationDate": number,
                "deprecated": boolean,
                "deprecationDate": number
            },
            "thingTypeName": "string",
            "thingTypeProperties": {
                "searchableAttributes": [ "string" ],
                "thingTypeDescription": "string"
            }
        }
    ]
}
```

```
        }  
    ]  
}
```

Response Elements

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

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

nextToken ([p. 523](#))

The token for the next set of results. Will not be returned if operation has returned all results.

Type: String

thingTypes ([p. 523](#))

The thing types.

Type: Array of [ThingTypeDefinition](#) ([p. 1038](#)) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListTopicRuleDestinations

Service: AWS IoT

Lists all the topic rule destinations in your AWS account.

Requires permission to access the [ListTopicRuleDestinations](#) action.

Request Syntax

```
GET /destinations?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 526)

The maximum number of results to return at one time.

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

nextToken (p. 526)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "destinationSummaries": [
    {
      "arn": "string",
      "createdAt": number,
      "httpUrlSummary": {
        "confirmationUrl": "string"
      },
      "lastUpdatedAt": number,
      "status": "string",
      "statusReason": "string",
      "vpcDestinationSummary": {
        "roleArn": "string",
        "securityGroups": [ "string" ],
        "subnetIds": [ "string" ],
        "vpcId": "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.

destinationSummaries (p. 526)

Information about a topic rule destination.

Type: Array of [TopicRuleDestinationSummary \(p. 1052\)](#) objects

nextToken (p. 526)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Errors

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

ListTopicRules

Service: AWS IoT

Lists the rules for the specific topic.

Requires permission to access the [ListTopicRules](#) action.

Request Syntax

```
GET /rules?maxResults=maxResults&nextToken=nextToken&ruleDisabled=ruleDisabled&topic=topic
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 528\)](#)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 10000.

[nextToken \(p. 528\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

[ruleDisabled \(p. 528\)](#)

Specifies whether the rule is disabled.

[topic \(p. 528\)](#)

The topic.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "rules": [
        {
            "createdAt": number,
            "ruleArn": "string",
            "ruleDisabled": boolean,
            "ruleName": "string",
            "topicPattern": "string"
        }
    ]
}
```

Response Elements

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

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

[nextToken \(p. 528\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

[rules \(p. 528\)](#)

The rules.

Type: Array of [TopicRuleListItem \(p. 1054\)](#) objects

Errors

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

ListV2LoggingLevels

Service: AWS IoT

Lists logging levels.

Requires permission to access the [ListV2LoggingLevels](#) action.

Request Syntax

```
GET /v2LoggingLevel?maxResults=maxResults&nextToken=nextToken&targetType=targetType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 530)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 530)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

targetType (p. 530)

The type of resource for which you are configuring logging. Must be THING_Group.

Valid Values: DEFAULT | THING_GROUP | CLIENT_ID | SOURCE_IP | PRINCIPAL_ID

Request Body

The request does not have a request body.

Response Syntax

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

{
  "logTargetConfigurations": [
    {
      "logLevel": "string",
      "logTarget": {
        "targetName": "string",
        "targetType": "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.

logTargetConfigurations (p. 530)

The logging configuration for a target.

Type: Array of [LogTargetConfiguration \(p. 950\)](#) objects

nextToken (p. 530)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

NotConfiguredException

The resource is not configured.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

ListViolationEvents

Service: AWS IoT

Lists the Device Defender security profile violations discovered during the given time period. You can use filters to limit the results to those alerts issued for a particular security profile, behavior, or thing (device).

Requires permission to access the [ListViolationEvents](#) action.

Request Syntax

```
GET /violation-events?  
behaviorCriteriaType=behaviorCriteriaType&endTime=endTime&listSuppressedAlerts=listSuppressedAlerts&maxResults=maxResults  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[behaviorCriteriaType \(p. 532\)](#)

The criteria for a behavior.

Valid Values: STATIC | STATISTICAL | MACHINE_LEARNING

[endTime \(p. 532\)](#)

The end time for the alerts to be listed.

Required: Yes

[listSuppressedAlerts \(p. 532\)](#)

A list of all suppressed alerts.

[maxResults \(p. 532\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken \(p. 532\)](#)

The token for the next set of results.

[securityProfileName \(p. 532\)](#)

A filter to limit results to those alerts generated by the specified security profile.

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

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

[startTime \(p. 532\)](#)

The start time for the alerts to be listed.

Required: Yes

[thingName \(p. 532\)](#)

A filter to limit results to those alerts caused by the specified thing.

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

[verificationState \(p. 532\)](#)

The verification state of the violation (detect alarm).

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Request Body

The request does not have a request body.

Response Syntax

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

{
    "nextToken": "string",
    "violationEvents": [
        {
            "behavior": {
                "criteria": {
                    "comparisonOperator": "string",
                    "consecutiveDatapointsToAlarm": number,
                    "consecutiveDatapointsToClear": number,
                    "durationSeconds": number,
                    "mlDetectionConfig": {
                        "confidenceLevel": "string"
                    },
                    "statisticalThreshold": {
                        "statistic": "string"
                    }
                },
                "value": {
                    "cidrs": [ "string" ],
                    "count": number,
                    "number": number,
                    "numbers": [ number ],
                    "ports": [ number ],
                    "strings": [ "string" ]
                }
            },
            "metric": "string",
            "metricDimension": {
                "dimensionName": "string",
                "operator": "string"
            },
            "name": "string",
            "suppressAlerts": boolean
        },
        "metricValue": {
            "cidrs": [ "string" ],
            "count": number,
            "number": number,
            "numbers": [ number ],
            "ports": [ number ],
            "strings": [ "string" ]
        },
        "securityProfileName": "string",
        "thingName": "string",
        "verificationState": "string",
        "verificationStateDescription": "string",
        "violationEventAdditionalInfo": {

```

```
        "confidenceLevel": "string"
    },
    "violationEventTime": number,
    "violationEventType": "string",
    "violationId": "string"
]
}
```

Response Elements

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

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

[nextToken \(p. 533\)](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[violationEvents \(p. 533\)](#)

The security profile violation alerts issued for this account during the given time period, potentially filtered by security profile, behavior violated, or thing (device) violating.

Type: Array of [ViolationEvent \(p. 1062\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

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

PutVerificationStateOnViolation

Service: AWS IoT

Set a verification state and provide a description of that verification state on a violation (detect alarm).

Request Syntax

```
POST /violations/verification-state/violationId HTTP/1.1
Content-type: application/json

{
    "verificationState": "string",
    "verificationStateDescription": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

violationId (p. 536)

The violation ID.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

verificationState (p. 536)

The verification state of the violation.

Type: String

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Required: Yes

verificationStateDescription (p. 536)

The description of the verification state of the violation (detect alarm).

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [^\p{Cntrl}]^*

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

RegisterCACertificate

Service: AWS IoT

Registers a CA certificate with AWS IoT Core. There is no limit to the number of CA certificates you can register in your AWS account. You can register up to 10 CA certificates with the same CA subject field per AWS account.

Requires permission to access the [RegisterCACertificate](#) action.

Request Syntax

```
POST /cacertificate?allowAutoRegistration=allowAutoRegistration&setAsActive=setAsActive
HTTP/1.1
Content-type: application/json

{
  "caCertificate": "string",
  "certificateMode": "string",
  "registrationConfig": {
    "roleArn": "string",
    "templateBody": "string",
    "templateName": "string"
  },
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "verificationCertificate": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[allowAutoRegistration \(p. 538\)](#)

Allows this CA certificate to be used for auto registration of device certificates.

[setAsActive \(p. 538\)](#)

A boolean value that specifies if the CA certificate is set to active.

Valid values: ACTIVE | INACTIVE

Request Body

The request accepts the following data in JSON format.

[caCertificate \(p. 538\)](#)

The CA certificate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: Yes

[certificateMode \(p. 538\)](#)

Describes the certificate mode in which the Certificate Authority (CA) will be registered. If the verificationCertificate field is not provided, set certificateMode to be SNI_ONLY. If the verificationCertificate field is provided, set certificateMode to be DEFAULT. When certificateMode is not provided, it defaults to DEFAULT. All the device certificates that are registered using this CA will be registered in the same certificate mode as the CA. For more information about certificate mode for device certificates, see [certificate mode](#).

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

[registrationConfig \(p. 538\)](#)

Information about the registration configuration.

Type: [RegistrationConfig \(p. 988\)](#) object

Required: No

[tags \(p. 538\)](#)

Metadata which can be used to manage the CA certificate.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag \(p. 1021\)](#) objects

Required: No

[verificationCertificate \(p. 538\)](#)

The private key verification certificate. If certificateMode is SNI_ONLY, the verificationCertificate field must be empty. If certificateMode is DEFAULT or not provided, the verificationCertificate field must not be empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: No

Response Syntax

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

{
  "certificateArn": "string",
  "certificateId": "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.

[certificateArn \(p. 539\)](#)

The CA certificate ARN.

Type: String

[certificateId \(p. 539\)](#)

The CA certificate identifier.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

RegistrationCodeValidationException

The registration code is invalid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

RegisterCertificate

Service: AWS IoT

Registers a device certificate with AWS IoT in the same [certificate mode](#) as the signing CA. If you have more than one CA certificate that has the same subject field, you must specify the CA certificate that was used to sign the device certificate being registered.

Requires permission to access the [RegisterCertificate](#) action.

Request Syntax

```
POST /certificate/register?setAsActive=setAsActive HTTP/1.1
Content-type: application/json

{
  "caCertificatePem": "string",
  "certificatePem": "string",
  "status": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[setAsActive \(p. 542\)](#)

This parameter has been deprecated.

A boolean value that specifies if the certificate is set to active.

Valid values: ACTIVE | INACTIVE

Request Body

The request accepts the following data in JSON format.

[caCertificatePem \(p. 542\)](#)

The CA certificate used to sign the device certificate being registered.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: No

[certificatePem \(p. 542\)](#)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: Yes

[status \(p. 542\)](#)

The status of the register certificate request. Valid values that you can use include ACTIVE, INACTIVE, and REVOKED.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

Response Syntax

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

{
    "certificateArn": "string",
    "certificateId": "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.

[certificateArn \(p. 543\)](#)

The certificate ARN.

Type: String

[certificateId \(p. 543\)](#)

The certificate identifier.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

CertificateConflictException

Unable to verify the CA certificate used to sign the device certificate you are attempting to register. This happens when you have registered more than one CA certificate that has the same subject field and public key.

HTTP Status Code: 409

CertificateStateException

The certificate operation is not allowed.

HTTP Status Code: 406

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

RegisterCertificateWithoutCA

Service: AWS IoT

Register a certificate that does not have a certificate authority (CA). For supported certificates, consult [Certificate signing algorithms supported by AWS IoT](#).

Request Syntax

```
POST /certificate/register-no-ca HTTP/1.1
Content-type: application/json

{
  "certificatePem": "string",
  "status": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[certificatePem \(p. 545\)](#)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: Yes

[status \(p. 545\)](#)

The status of the register certificate request.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

Response Syntax

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

{
  "certificateArn": "string",
  "certificateId": "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.

certificateArn (p. 545)

The Amazon Resource Name (ARN) of the registered certificate.

Type: String

certificateId (p. 545)

The ID of the registered certificate. (The last part of the certificate ARN contains the certificate ID.)

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

CertificateStateException

The certificate operation is not allowed.

HTTP Status Code: 406

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

RegisterThing

Service: AWS IoT

Provisions a thing in the device registry. RegisterThing calls other AWS IoT control plane APIs. These calls might exceed your account level [AWS IoT Throttling Limits](#) and cause throttle errors. Please contact [AWS Customer Support](#) to raise your throttling limits if necessary.

Requires permission to access the [RegisterThing](#) action.

Request Syntax

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

{
  "parameters": {
    "string" : "string"
  },
  "templateBody": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[parameters \(p. 548\)](#)

The parameters for provisioning a thing. See [Provisioning Templates](#) for more information.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 2048.

Key Pattern: [\s\S]*

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

Value Pattern: [\s\S]*

Required: No

[templateBody \(p. 548\)](#)

The provisioning template. See [Provisioning Devices That Have Device Certificates](#) for more information.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

Required: Yes

Response Syntax

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

{
    "certificatePem": "string",
    "resourceArns": {
        "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.

[certificatePem \(p. 549\)](#)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

[resourceArns \(p. 549\)](#)

ARNs for the generated resources.

Type: String to string map

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceRegistrationFailureException

The resource registration failed.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

RejectCertificateTransfer

Service: AWS IoT

Rejects a pending certificate transfer. After AWS IoT rejects a certificate transfer, the certificate status changes from **PENDING_TRANSFER** to **INACTIVE**.

To check for pending certificate transfers, call [ListCertificates \(p. 414\)](#) to enumerate your certificates.

This operation can only be called by the transfer destination. After it is called, the certificate will be returned to the source's account in the **INACTIVE** state.

Requires permission to access the **RejectCertificateTransfer** action.

Request Syntax

```
PATCH /reject-certificate-transfer/certificateId HTTP/1.1
Content-type: application/json

{
    "rejectReason": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

certificateId (p. 551)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: `(0x)?[a-fA-F0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

rejectReason (p. 551)

The reason the certificate transfer was rejected.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

TransferAlreadyCompletedException

You can't revert the certificate transfer because the transfer is already complete.

HTTP Status Code: 410

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

RemoveThingFromBillingGroup

Service: AWS IoT

Removes the given thing from the billing group.

Requires permission to access the [RemoveThingFromBillingGroup](#) action.

Note

This call is asynchronous. It might take several seconds for the detachment to propagate.

Request Syntax

```
PUT /billing-groups/removeThingFromBillingGroup HTTP/1.1
Content-type: application/json

{
  "billingGroupArn": "string",
  "billingGroupName": "string",
  "thingArn": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[billingGroupArn \(p. 554\)](#)

The ARN of the billing group.

Type: String

Required: No

[billingGroupName \(p. 554\)](#)

The name of the billing group.

Type: String

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

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

Required: No

[thingArn \(p. 554\)](#)

The ARN of the thing to be removed from the billing group.

Type: String

Required: No

[thingName \(p. 554\)](#)

The name of the thing to be removed from the billing group.

Type: String

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

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

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

RemoveThingFromThingGroup

Service: AWS IoT

Remove the specified thing from the specified group.

You must specify either a `thingGroupArn` or a `thingGroupName` to identify the thing group and either a `thingArn` or a `thingName` to identify the thing to remove from the thing group.

Requires permission to access the [RemoveThingFromThingGroup](#) action.

Request Syntax

```
PUT /thing-groups/removeThingFromThingGroup HTTP/1.1
Content-type: application/json

{
    "thingArn": "string",
    "thingGroupArn": "string",
    "thingGroupName": "string",
    "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

thingArn (p. 557)

The ARN of the thing to remove from the group.

Type: String

Required: No

thingGroupArn (p. 557)

The group ARN.

Type: String

Required: No

thingGroupName (p. 557)

The group name.

Type: String

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

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

Required: No

thingName (p. 557)

The name of the thing to remove from the group.

Type: String

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

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

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

ReplaceTopicRule

Service: AWS IoT

Replaces the rule. You must specify all parameters for the new rule. Creating rules is an administrator-level action. Any user who has permission to create rules will be able to access data processed by the rule.

Requires permission to access the [ReplaceTopicRule](#) action.

Request Syntax

```
PATCH /rules/ruleName HTTP/1.1
Content-type: application/json

{
  "topicRulePayload": {
    "actions": [
      {
        "cloudwatchAlarm": {
          "alarmName": "string",
          "roleArn": "string",
          "stateReason": "string",
          "stateValue": "string"
        },
        "cloudwatchLogs": {
          "logGroupName": "string",
          "roleArn": "string"
        },
        "cloudwatchMetric": {
          "metricName": "string",
          "metricNamespace": "string",
          "metricTimestamp": "string",
          "metricUnit": "string",
          "metricValue": "string",
          "roleArn": "string"
        },
        "dynamoDB": {
          "hashKeyField": "string",
          "hashKeyType": "string",
          "hashKeyValue": "string",
          "operation": "string",
          "payloadField": "string",
          "rangeKeyField": "string",
          "rangeKeyType": "string",
          "rangeKeyValue": "string",
          "roleArn": "string",
          "tableName": "string"
        },
        "dynamoDBv2": {
          "putItem": {
            "tableName": "string"
          },
          "roleArn": "string"
        },
        "elasticsearch": {
          "endpoint": "string",
          "id": "string",
          "index": "string",
          "roleArn": "string",
          "type": "string"
        },
        "firehose": {
          "batchMode": boolean,
          "roleArn": "string"
        }
      ]
    }
  }
}
```

```

    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
},
"http": {
    "auth": {
        "sigv4": {
            "roleArn": "string",
            "serviceName": "string",
            "signingRegion": "string"
        }
    },
    "confirmationUrl": "string",
    "headers": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "url": "string"
},
"iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
},
"iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
},
"iotSiteWise": {
    "putAssetPropertyValueEntries": [
        {
            "assetId": "string",
            "entryId": "string",
            "propertyAlias": "string",
            "propertyId": "string",
            "propertyValues": [
                {
                    "quality": "string",
                    "timestamp": {
                        "offsetInNanos": "string",
                        "timeInSeconds": "string"
                    },
                    "value": {
                        "booleanValue": "string",
                        "doubleValue": "string",
                        "integerValue": "string",
                        "stringValue": "string"
                    }
                }
            ]
        }
    ],
    "roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "key": "string",
    "partition": "string",
    "topic": "string"
}
}

```

```

        "topic": "string"
    },
    "kinesis": {
        "partitionKey": "string",
        "roleArn": "string",
        "streamName": "string"
    },
    "lambda": {
        "functionArn": "string"
    },
    "location": {
        "deviceId": "string",
        "latitude": "string",
        "longitude": "string",
        "roleArn": "string",
        "timestamp": {
            "unit": "string",
            "value": "string"
        },
        "trackerName": "string"
    },
    "openSearch": {
        "endpoint": "string",
        "id": "string",
        "index": "string",
        "roleArn": "string",
        "type": "string"
    },
    "republish": {
        "qos": number,
        "roleArn": "string",
        "topic": "string"
    },
    "s3": {
        "bucketName": "string",
        "cannedAcl": "string",
        "key": "string",
        "roleArn": "string"
    },
    "salesforce": {
        "token": "string",
        "url": "string"
    },
    "sns": {
        "messageFormat": "string",
        "roleArn": "string",
        "targetArn": "string"
    },
    "sqS": {
        "queueUrl": "string",
        "roleArn": "string",
        "useBase64": boolean
    },
    "stepFunctions": {
        "executionNamePrefix": "string",
        "roleArn": "string",
        "stateMachineName": "string"
    },
    "timestream": {
        "databaseName": "string",
        "dimensions": [
            {
                "name": "string",
                "value": "string"
            }
        ],
        "startTimestamp": "string"
    }
}

```

```

        "roleArn": "string",
        "tableName": "string",
        "timestamp": {
            "unit": "string",
            "value": "string"
        }
    }
},
],
"awsIotSqlVersion": "string",
"description": "string",
"errorAction": {
    "cloudwatchAlarm": {
        "alarmName": "string",
        "roleArn": "string",
        "stateReason": "string",
        "stateValue": "string"
    },
    "cloudwatchLogs": {
        "logGroupName": "string",
        "roleArn": "string"
    },
    "cloudwatchMetric": {
        "metricName": "string",
        "metricNamespace": "string",
        "metricTimestamp": "string",
        "metricUnit": "string",
        "metricValue": "string",
        "roleArn": "string"
    },
    "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payloadField": "string",
        "rangeKeyField": "string",
        "rangeKeyType": "string",
        "rangeKeyValue": "string",
        "roleArn": "string",
        "tableName": "string"
    },
    "dynamoDBv2": {
        "putItem": {
            "tableName": "string"
        },
        "roleArn": "string"
    },
    "elasticsearch": {
        "endpoint": "string",
        "id": "string",
        "index": "string",
        "roleArn": "string",
        "type": "string"
    },
    "firehose": {
        "batchMode": boolean,
        "deliveryStreamName": "string",
        "roleArn": "string",
        "separator": "string"
    },
    "http": {
        "auth": {
            "sigv4": {
                "roleArn": "string",
                "serviceName": "string",
                "region": "string"
            }
        }
    }
}

```

```

        "signingRegion": "string"
    }
},
"confirmationUrl": "string",
"headers": [
{
    "key": "string",
    "value": "string"
}
],
"url": "string"
},
"iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
},
"iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
},
"iotSiteWise": {
    "putAssetPropertyValueEntries": [
        {
            "assetId": "string",
            "entryId": "string",
            "propertyAlias": "string",
            "propertyId": "string",
            "propertyValues": [
                {
                    "quality": "string",
                    "timestamp": {
                        "offsetInNanos": "string",
                        "timeInSeconds": "string"
                    },
                    "value": {
                        "booleanValue": "string",
                        "doubleValue": "string",
                        "integerValue": "string",
                        "stringValue": "string"
                    }
                }
            ]
        }
    ],
    "roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
}

```

```

},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "qos": number,
    "roleArn": "string",
    "topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",
    "url": "string"
},
"sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
},
"sqs": {
    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
},
"stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
},
"timestream": {
    "databaseName": "string",
    "dimensions": [
        {
            "name": "string",
            "value": "string"
        }
    ],
    "roleArn": "string",
    "tableName": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    }
}
},
"ruleDisabled": boolean,

```

```
        "sql": "string"  
    }  
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleName (p. 560)

The name of the rule.

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

Pattern: ^[a-zA-Z0-9_]+\$

Required: Yes

Request Body

The request accepts the following data in JSON format.

topicRulePayload (p. 560)

The rule payload.

Type: [TopicRulePayload \(p. 1055\)](#) object

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

SqlParseException

The Rule-SQL expression can't be parsed correctly.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

SearchIndex

Service: AWS IoT

The query search index.

Requires permission to access the [SearchIndex](#) action.

Request Syntax

```
POST /indices/search HTTP/1.1
Content-type: application/json

{
    "indexName": "string",
    "maxResults": number,
    "nextToken": "string",
    "queryString": "string",
    "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[indexName \(p. 568\)](#)

The search index name.

Type: String

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

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

Required: No

[maxResults \(p. 568\)](#)

The maximum number of results to return at one time.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

[nextToken \(p. 568\)](#)

The token used to get the next set of results, or null if there are no additional results.

Type: String

Required: No

[queryString \(p. 568\)](#)

The search query string. For more information about the search query syntax, see [Query syntax](#).

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion \(p. 568\)](#)

The query version.

Type: String

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "thingGroups": [
    {
      "attributes": {
        "string" : "string"
      },
      "parentGroupNames": [ "string" ],
      "thingGroupDescription": "string",
      "thingGroupId": "string",
      "thingGroupName": "string"
    }
  ],
  "things": [
    {
      "attributes": {
        "string" : "string"
      },
      "connectivity": {
        "connected": boolean,
        "disconnectReason": "string",
        "timestamp": number
      },
      "deviceDefender": "string",
      "shadow": "string",
      "thingGroupNames": [ "string" ],
      "thingId": "string",
      "thingName": "string",
      "thingTypeName": "string"
    }
  ]
}
```

Response Elements

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

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

[nextToken \(p. 569\)](#)

The token used to get the next set of results, or null if there are no additional results.

Type: String

thingGroups (p. 569)

The thing groups that match the search query.

Type: Array of [ThingGroupDocument \(p. 1031\)](#) objects

things (p. 569)

The things that match the search query.

Type: Array of [ThingDocument \(p. 1029\)](#) objects

Errors

IndexNotReadyException

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

SetDefaultAuthorizer

Service: AWS IoT

Sets the default authorizer. This will be used if a websocket connection is made without specifying an authorizer.

Requires permission to access the [SetDefaultAuthorizer](#) action.

Request Syntax

```
POST /default-authorizer HTTP/1.1
Content-type: application/json

{
    "authorizerName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

authorizerName (p. 572)

The authorizer name.

Type: String

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

Pattern: [\w=,@-]+

Required: Yes

Response Syntax

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

{
    "authorizerArn": "string",
    "authorizerName": "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.

authorizerArn (p. 572)

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

authorizerName (p. 572)

The authorizer name.

Type: String

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

Pattern: [\w=,@-]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

SetDefaultPolicyVersion

Service: AWS IoT

Sets the specified version of the specified policy as the policy's default (operative) version. This action affects all certificates to which the policy is attached. To list the principals the policy is attached to, use the [ListPrincipalPolicies \(p. 469\)](#) action.

Requires permission to access the [SetDefaultPolicyVersion](#) action.

Request Syntax

```
PATCH /policies/policyName/version/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName \(p. 575\)](#)

The policy name.

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

Pattern: [\w+=,.@-]+

Required: Yes

[policyVersionId \(p. 575\)](#)

The policy version ID.

Pattern: [0-9]+

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

SetLoggingOptions

Service: AWS IoT

Sets the logging options.

NOTE: use of this command is not recommended. Use [SetV2LoggingOptions](#) instead.

Requires permission to access the [SetLoggingOptions](#) action.

Request Syntax

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

{
  "loggingOptionsPayload": {
    "logLevel": "string",
    "roleArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[loggingOptionsPayload \(p. 577\)](#)

The logging options payload.

Type: [LoggingOptionsPayload \(p. 948\)](#) object

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

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

SetV2LogLevel

Service: AWS IoT

Sets the logging level.

Requires permission to access the [SetV2LogLevel](#) action.

Request Syntax

```
POST /v2LogLevel HTTP/1.1
Content-type: application/json

{
  "logLevel": "string",
  "logTarget": {
    "targetName": "string",
    "targetType": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[logLevel \(p. 579\)](#)

The log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: Yes

[logTarget \(p. 579\)](#)

The log target.

Type: [LogTarget \(p. 949\)](#) object

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

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

NotConfiguredException

The resource is not configured.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

SetV2LoggingOptions

Service: AWS IoT

Sets the logging options for the V2 logging service.

Requires permission to access the [SetV2LoggingOptions](#) action.

Request Syntax

```
POST /v2LoggingOptions HTTP/1.1
Content-type: application/json

{
  "defaultLogLevel": "string",
  "disableAllLogs": boolean,
  "roleArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[defaultLogLevel \(p. 581\)](#)

The default logging level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

[disableAllLogs \(p. 581\)](#)

If true all logs are disabled. The default is false.

Type: Boolean

Required: No

[roleArn \(p. 581\)](#)

The ARN of the role that allows IoT to write to Cloudwatch logs.

Type: String

Required: No

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

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

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

StartAuditMitigationActionsTask

Service: AWS IoT

Starts a task that applies a set of mitigation actions to the specified target.

Requires permission to access the [StartAuditMitigationActionsTask](#) action.

Request Syntax

```
POST /audit/mitigationactions/tasks/taskId HTTP/1.1
Content-type: application/json

{
  "auditCheckToActionsMapping": {
    "string": [ "string" ]
  },
  "clientRequestToken": "string",
  "target": {
    "auditCheckToReasonCodeFilter": {
      "string": [ "string" ]
    },
    "auditTaskId": "string",
    "findingIds": [ "string" ]
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

taskId ([p. 583](#))

A unique identifier for the task. You can use this identifier to check the status of the task or to cancel it.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

auditCheckToActionsMapping ([p. 583](#))

For an audit check, specifies which mitigation actions to apply. Those actions must be defined in your AWS accounts.

Type: String to array of strings map

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 128.

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

Required: Yes

[clientRequestToken \(p. 583\)](#)

Each audit mitigation task must have a unique client request token. If you try to start a new task with the same token as a task that already exists, an exception occurs. If you omit this value, a unique client request token is generated automatically.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: Yes

[target \(p. 583\)](#)

Specifies the audit findings to which the mitigation actions are applied. You can apply them to a type of audit check, to all findings from an audit, or to a specific set of findings.

Type: [AuditMitigationActionsTaskTarget \(p. 833\)](#) object

Required: Yes

Response Syntax

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

{
    "taskId": "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.

[taskId \(p. 584\)](#)

The unique identifier for the audit mitigation task. This matches the taskId that you specified in the request.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

TaskAlreadyExistsException

This exception occurs if you attempt to start a task with the same task-id as an existing task but with a different clientRequestToken.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

StartDetectMitigationActionsTask

Service: AWS IoT

Starts a Device Defender ML Detect mitigation actions task.

Requires permission to access the [StartDetectMitigationActionsTask](#) action.

Request Syntax

```
PUT /detect/mitigationactions/tasks/taskId HTTP/1.1
Content-type: application/json

{
  "actions": [ "string" ],
  "clientRequestToken": "string",
  "includeOnlyActiveViolations": boolean,
  "includeSuppressedAlerts": boolean,
  "target": {
    "behaviorName": "string",
    "securityProfileName": "string",
    "violationIds": [ "string" ]
  },
  "violationEventOccurrenceRange": {
    "endTime": number,
    "startTime": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 586)

The unique identifier of the task.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

actions (p. 586)

The actions to be performed when a device has unexpected behavior.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 128.

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

Required: Yes

[clientRequestToken \(p. 586\)](#)

Each mitigation action task must have a unique client request token. If you try to create a new task with the same token as a task that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: Yes

[includeOnlyActiveViolations \(p. 586\)](#)

Specifies to list only active violations.

Type: Boolean

Required: No

[includeSuppressedAlerts \(p. 586\)](#)

Specifies to include suppressed alerts.

Type: Boolean

Required: No

[target \(p. 586\)](#)

Specifies the ML Detect findings to which the mitigation actions are applied.

Type: [DetectMitigationActionsTaskTarget \(p. 888\)](#) object

Required: Yes

[violationEventOccurrenceRange \(p. 586\)](#)

Specifies the time period of which violation events occurred between.

Type: [ViolationEventOccurrenceRange \(p. 1065\)](#) object

Required: No

Response Syntax

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

{
    "taskId": "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.

[taskId \(p. 587\)](#)

The unique identifier of the task.

Type: String

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

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

TaskAlreadyExistsException

This exception occurs if you attempt to start a task with the same task-id as an existing task but with a different clientRequestToken.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

StartOnDemandAuditTask

Service: AWS IoT

Starts an on-demand Device Defender audit.

Requires permission to access the [StartOnDemandAuditTask](#) action.

Request Syntax

```
POST /audit/tasks HTTP/1.1
Content-type: application/json

{
    "targetCheckNames": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[targetCheckNames \(p. 589\)](#)

Which checks are performed during the audit. The checks you specify must be enabled for your account or an exception occurs. Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or [UpdateAccountAuditConfiguration](#) to select which checks are enabled.

Type: Array of strings

Required: Yes

Response Syntax

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

{
    "taskId": "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.

[taskId \(p. 589\)](#)

The ID of the on-demand audit you started.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

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

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ThrottlingException

The rate exceeds the limit.

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

StartThingRegistrationTask

Service: AWS IoT

Creates a bulk thing provisioning task.

Requires permission to access the [StartThingRegistrationTask](#) action.

Request Syntax

```
POST /thing-registration-tasks HTTP/1.1
Content-type: application/json

{
    "inputFileBucket": "string",
    "inputFileKey": "string",
    "roleArn": "string",
    "templateBody": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[inputFileBucket \(p. 591\)](#)

The S3 bucket that contains the input file.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 256.

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

Required: Yes

[inputFileKey \(p. 591\)](#)

The name of input file within the S3 bucket. This file contains a newline delimited JSON file. Each line contains the parameter values to provision one device (thing).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9!_.*'()-\/\]+

Required: Yes

[roleArn \(p. 591\)](#)

The IAM role ARN that grants permission the input file.

Type: String

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

Required: Yes

[templateBody \(p. 591\)](#)

The provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

Required: Yes

Response Syntax

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

{
    "taskId": "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.

[taskId \(p. 592\)](#)

The bulk thing provisioning task ID.

Type: String

Length Constraints: Maximum length of 40.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

StopThingRegistrationTask

Service: AWS IoT

Cancels a bulk thing provisioning task.

Requires permission to access the [StopThingRegistrationTask](#) action.

Request Syntax

```
PUT /thing-registration-tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 594)

The bulk thing provisioning task ID.

Length Constraints: Maximum length of 40.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

TagResource

Service: AWS IoT

Adds to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource.

Requires permission to access the [TagResource](#) action.

Request Syntax

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

{
  "resourceArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[resourceArn](#) (p. 596)

The ARN of the resource.

Type: String

Required: Yes

[tags](#) (p. 596)

The new or modified tags for the resource.

Type: Array of [Tag](#) (p. 1021) objects

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

TestAuthorization

Service: AWS IoT

Tests if a specified principal is authorized to perform an AWS IoT action on a specified resource. Use this to test and debug the authorization behavior of devices that connect to the AWS IoT device gateway.

Requires permission to access the [TestAuthorization](#) action.

Request Syntax

```
POST /test-authorization?clientId=clientID HTTP/1.1
Content-type: application/json

{
  "authInfos": [
    {
      "actionType": "string",
      "resources": [ "string" ]
    }
  ],
  "cognitoIdentityPoolId": "string",
  "policyNamesToAdd": [ "string" ],
  "policyNamesToSkip": [ "string" ],
  "principal": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientId](#) (p. 598)

The MQTT client ID.

Request Body

The request accepts the following data in JSON format.

[authInfos](#) (p. 598)

A list of authorization info objects. Simulating authorization will create a response for each authInfo object in the list.

Type: Array of [AuthInfo](#) (p. 838) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

[cognitoIdentityPoolId](#) (p. 598)

The Cognito identity pool ID.

Type: String

Required: No

[policyNamesToAdd](#) (p. 598)

When testing custom authorization, the policies specified here are treated as if they are attached to the principal being authorized.

Type: Array of strings

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

Pattern: [\w+=, .@-]+

Required: No

[policyNamesToSkip \(p. 598\)](#)

When testing custom authorization, the policies specified here are treated as if they are not attached to the principal being authorized.

Type: Array of strings

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

Pattern: [\w+=, .@-]+

Required: No

[principal \(p. 598\)](#)

The principal. Valid principals are CertificateArn (arn:aws:iot:region:accountId:cert/certificateId), thingGroupArn (arn:aws:iot:region:accountId:thinggroup/groupName) and Cognitoid (region:id).

Type: String

Required: No

Response Syntax

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

{
  "authResults": [
    {
      "allowed": {
        "policies": [
          {
            "policyArn": "string",
            "policyName": "string"
          }
        ]
      },
      "authDecision": "string",
      "authInfo": {
        "actionType": "string",
        "resources": [ "string" ]
      },
      "denied": {
        "explicitDeny": {
          "policies": [
            {
              "policyArn": "string",
              "policyName": "string"
            }
          ]
        },
        "implicitDeny": {
          "policies": [
            {
              "policyArn": "string",
              "policyName": "string"
            }
          ]
        }
      }
    }
  ]
}
```

```
        "policyArn": "string",
        "policyName": "string"
    }
]
},
"missingContextValues": [ "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.

authResults (p. 599)

The authentication results.

Type: Array of [AuthResult \(p. 843\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

TestInvokeAuthorizer

Service: AWS IoT

Tests a custom authorization behavior by invoking a specified custom authorizer. Use this to test and debug the custom authorization behavior of devices that connect to the AWS IoT device gateway.

Requires permission to access the [TestInvokeAuthorizer](#) action.

Request Syntax

```
POST /authorizer/authorizerName/test HTTP/1.1
Content-type: application/json

{
  "httpContext": {
    "headers": {
      "string" : "string"
    },
    "queryString": "string"
  },
  "mqttContext": {
    "clientId": "string",
    "password": blob,
    "username": "string"
  },
  "tlsContext": {
    "serverName": "string"
  },
  "token": "string",
  "tokenSignature": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName \(p. 602\)](#)

The custom authorizer name.

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

Pattern: [\w=,@-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[httpContext \(p. 602\)](#)

Specifies a test HTTP authorization request.

Type: [HttpContext \(p. 911\)](#) object

Required: No

[mqttContext \(p. 602\)](#)

Specifies a test MQTT authorization request.

Type: [MqttContext \(p. 963\)](#) object

Required: No

[tlsContext \(p. 602\)](#)

Specifies a test TLS authorization request.

Type: [TlsContext \(p. 1046\)](#) object

Required: No

[token \(p. 602\)](#)

The token returned by your custom authentication service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: [\s\S]*

Required: No

[tokenSignature \(p. 602\)](#)

The signature made with the token and your custom authentication service's private key. This value must be Base-64-encoded.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2560.

Pattern: [A-Za-z0-9+/]+={0,2}

Required: No

Response Syntax

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

{
  "disconnectAfterInSeconds": number,
  "isAuthenticated": boolean,
  "policyDocuments": [ "string" ],
  "principalId": "string",
  "refreshAfterInSeconds": number
}
```

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.

[disconnectAfterInSeconds \(p. 603\)](#)

The number of seconds after which the connection is terminated.

Type: Integer

[isAuthenticated \(p. 603\)](#)

True if the token is authenticated, otherwise false.

Type: Boolean

[policyDocuments \(p. 603\)](#)

IAM policy documents.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

[principalId \(p. 603\)](#)

The principal ID.

Type: String

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

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

[refreshAfterInSeconds \(p. 603\)](#)

The number of seconds after which the temporary credentials are refreshed.

Type: Integer

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

InvalidResponseException

The response is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

TransferCertificate

Service: AWS IoT

Transfers the specified certificate to the specified AWS account.

Requires permission to access the [TransferCertificate](#) action.

You can cancel the transfer until it is acknowledged by the recipient.

No notification is sent to the transfer destination's account. It is up to the caller to notify the transfer target.

The certificate being transferred must not be in the ACTIVE state. You can use the [UpdateCertificate \(p. 627\)](#) action to deactivate it.

The certificate must not have any policies attached to it. You can use the [DetachPolicy \(p. 323\)](#) action to detach them.

Request Syntax

```
PATCH /transfer-certificate/certificateId?targetAwsAccount=targetAwsAccount HTTP/1.1
Content-type: application/json

{
    "transferMessage": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId \(p. 606\)](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[targetAwsAccount \(p. 606\)](#)

The AWS account.

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[transferMessage \(p. 606\)](#)

The transfer message.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\s\S]*

Required: No

Response Syntax

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

{
    "transferredCertificateArn": "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.

[transferredCertificateArn \(p. 607\)](#)

The ARN of the certificate.

Type: String

Errors

CertificateStateException

The certificate operation is not allowed.

HTTP Status Code: 406

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

TransferConflictException

You can't transfer the certificate because authorization policies are still attached.

HTTP Status Code: 409

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

UntagResource

Service: AWS IoT

Removes the given tags (metadata) from the resource.

Requires permission to access the [UntagResource](#) action.

Request Syntax

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

{
    "resourceArn": "string",
    "tagKeys": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[resourceArn \(p. 609\)](#)

The ARN of the resource.

Type: String

Required: Yes

[tagKeys \(p. 609\)](#)

A list of the keys of the tags to be removed from the resource.

Type: Array of strings

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

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

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

UpdateAccountAuditConfiguration

Service: AWS IoT

Configures or reconfigures the Device Defender audit settings for this account. Settings include how audit notifications are sent and which audit checks are enabled or disabled.

Requires permission to access the [UpdateAccountAuditConfiguration](#) action.

Request Syntax

```
PATCH /audit/configuration HTTP/1.1
Content-type: application/json

{
  "auditCheckConfigurations": {
    "string" : {
      "enabled": boolean
    }
  },
  "auditNotificationTargetConfigurations": {
    "string" : {
      "enabled": boolean,
      "roleArn": "string",
      "targetArn": "string"
    }
  },
  "roleArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[auditCheckConfigurations \(p. 611\)](#)

Specifies which audit checks are enabled and disabled for this account. Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are currently enabled.

Some data collection might start immediately when certain checks are enabled. When a check is disabled, any data collected so far in relation to the check is deleted.

You cannot disable a check if it's used by any scheduled audit. You must first delete the check from the scheduled audit or delete the scheduled audit itself.

On the first call to [UpdateAccountAuditConfiguration](#), this parameter is required and must specify at least one enabled check.

Type: String to [AuditCheckConfiguration \(p. 825\)](#) object map

Required: No

[auditNotificationTargetConfigurations \(p. 611\)](#)

Information about the targets to which audit notifications are sent.

Type: String to [AuditNotificationTarget \(p. 834\)](#) object map

Valid Keys: SNS

Required: No

[roleArn \(p. 611\)](#)

The Amazon Resource Name (ARN) of the role that grants permission to AWS IoT to access information about your devices, policies, certificates, and other items as required when performing an audit.

Type: String

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

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

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

UpdateAuditSuppression

Service: AWS IoT

Updates a Device Defender audit suppression.

Request Syntax

```
PATCH /audit/suppressions/update HTTP/1.1
Content-type: application/json

{
  "checkName": "string",
  "description": "string",
  "expirationDate": number,
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "suppressIndefinitely": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName (p. 614)

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: Yes

description (p. 614)

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\\p{Graph}]^{x20}*

Required: No

expirationDate (p. 614)

The expiration date (epoch timestamp in seconds) that you want the suppression to adhere to.

Type: Timestamp

Required: No

resourceIdentifier (p. 614)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: Yes

suppressIndefinitely (p. 614)

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

UpdateAuthorizer

Service: AWS IoT

Updates an authorizer.

Requires permission to access the [UpdateAuthorizer](#) action.

Request Syntax

```
PUT /authorizer/authorizerName HTTP/1.1
Content-type: application/json

{
  "authorizerFunctionArn": "string",
  "enableCachingForHttp": boolean,
  "status": "string",
  "tokenKeyName": "string",
  "tokenSigningPublicKeys": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName \(p. 617\)](#)

The authorizer name.

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

Pattern: [\w=,@-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[authorizerFunctionArn \(p. 617\)](#)

The ARN of the authorizer's Lambda function.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: [\s\S]*

Required: No

[enableCachingForHttp \(p. 617\)](#)

When true, the result from the authorizer's Lambda function is cached for the time specified in refreshAfterInSeconds. The cached result is used while the device reuses the same HTTP connection.

Type: Boolean

Required: No

[status \(p. 617\)](#)

The status of the update authorizer request.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

[tokenKeyName \(p. 617\)](#)

The key used to extract the token from the HTTP headers.

Type: String

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

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

Required: No

[tokenSigningPublicKeys \(p. 617\)](#)

The public keys used to verify the token signature.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 5120.

Value Pattern: [\s\S]*

Required: No

Response Syntax

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

{
    "authorizerArn": "string",
    "authorizerName": "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.

[authorizerArn \(p. 618\)](#)

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

[authorizerName \(p. 618\)](#)

The authorizer name.

Type: String

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

Pattern: [\w=,@-]+

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

UpdateBillingGroup

Service: AWS IoT

Updates information about the billing group.

Requires permission to access the [UpdateBillingGroup](#) action.

Request Syntax

```
PATCH /billing-groups/billingGroupName HTTP/1.1
Content-type: application/json

{
  "billingGroupProperties": {
    "billingGroupDescription": "string"
  },
  "expectedVersion": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName \(p. 621\)](#)

The name of the billing group.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[billingGroupProperties \(p. 621\)](#)

The properties of the billing group.

Type: [BillingGroupProperties \(p. 859\)](#) object

Required: Yes

[expectedVersion \(p. 621\)](#)

The expected version of the billing group. If the version of the billing group does not match the expected version specified in the request, the `UpdateBillingGroup` request is rejected with a `VersionConflictException`.

Type: Long

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "version": number
}
```

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.

[version \(p. 621\)](#)

The latest version of the billing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the expectedVersion parameter does not match the latest version in the system.

HTTP Status Code: 409

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](#)

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

UpdateCACertificate

Service: AWS IoT

Updates a registered CA certificate.

Requires permission to access the [UpdateCACertificate](#) action.

Request Syntax

```
PUT /cacertificate/caCertificateId?  
newAutoRegistrationStatus=newAutoRegistrationStatus&newStatus=newStatus HTTP/1.1  
Content-type: application/json  
  
{  
    "registrationConfig": {  
        "roleArn": "string",  
        "templateBody": "string",  
        "templateName": "string"  
    },  
    "removeAutoRegistration": boolean  
}
```

URI Request Parameters

The request uses the following URI parameters.

[caCertificateId](#) (p. 624)

The CA certificate identifier.

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[newAutoRegistrationStatus](#) (p. 624)

The new value for the auto registration status. Valid values are: "ENABLE" or "DISABLE".

Valid Values: ENABLE | DISABLE

[newStatus](#) (p. 624)

The updated status of the CA certificate.

Note: The status value REGISTER_INACTIVE is deprecated and should not be used.

Valid Values: ACTIVE | INACTIVE

Request Body

The request accepts the following data in JSON format.

[registrationConfig](#) (p. 624)

Information about the registration configuration.

Type: [RegistrationConfig](#) (p. 988) object

Required: No

[removeAutoRegistration \(p. 624\)](#)

If true, removes auto registration.

Type: Boolean

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

UpdateCertificate

Service: AWS IoT

Updates the status of the specified certificate. This operation is idempotent.

Requires permission to access the [UpdateCertificate](#) action.

Certificates must be in the ACTIVE state to authenticate devices that use a certificate to connect to AWS IoT.

Within a few minutes of updating a certificate from the ACTIVE state to any other state, AWS IoT disconnects all devices that used that certificate to connect. Devices cannot use a certificate that is not in the ACTIVE state to reconnect.

Request Syntax

```
PUT /certificates/certificateId?newStatus=newStatus HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId](#) (p. 627)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[newStatus](#) (p. 627)

The new status.

Note: Setting the status to PENDING_TRANSFER or PENDING_ACTIVATION will result in an exception being thrown. PENDING_TRANSFER and PENDING_ACTIVATION are statuses used internally by AWS IoT. They are not intended for developer use.

Note: The status value REGISTER_INACTIVE is deprecated and should not be used.

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

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

CertificateStateException

The certificate operation is not allowed.

HTTP Status Code: 406

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

UpdateCustomMetric

Service: AWS IoT

Updates a Device Defender detect custom metric.

Requires permission to access the [UpdateCustomMetric](#) action.

Request Syntax

```
PATCH /custom-metric/metricName HTTP/1.1
Content-type: application/json

{
    "displayName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[metricName \(p. 630\)](#)

The name of the custom metric. Cannot be updated.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

[displayName \(p. 630\)](#)

Field represents a friendly name in the console for the custom metric, it doesn't have to be unique. Don't use this name as the metric identifier in the device metric report. Can be updated.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\p{Graph}\x20]*

Required: Yes

Response Syntax

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

{
    "creationDate": number,
    "displayName": "string",
    "lastModifiedDate": number,
    "metricArn": "string",
```

```
    "metricName": "string",
    "metricType": "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.

[creationDate \(p. 630\)](#)

The creation date of the custom metric in milliseconds since epoch.

Type: Timestamp

[displayName \(p. 630\)](#)

A friendly name in the console for the custom metric

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\p{Graph}\x20]*

[lastModifiedDate \(p. 630\)](#)

The time the custom metric was last modified in milliseconds since epoch.

Type: Timestamp

[metricArn \(p. 630\)](#)

The Amazon Resource Number (ARN) of the custom metric.

Type: String

[metricName \(p. 630\)](#)

The name of the custom metric.

Type: String

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

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

[metricType \(p. 630\)](#)

The type of the custom metric.

Important

The type `number` only takes a single metric value as an input, but while submitting the `metrics` value in the `DeviceMetrics` report, it must be passed as an array with a single value.

Type: String

Valid Values: `string-list` | `ip-address-list` | `number-list` | `number`

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

UpdateDimension

Service: AWS IoT

Updates the definition for a dimension. You cannot change the type of a dimension after it is created (you can delete it and recreate it).

Requires permission to access the [UpdateDimension](#) action.

Request Syntax

```
PATCH /dimensions/name HTTP/1.1
Content-type: application/json

{
    "stringValues": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

name (p. 633)

A unique identifier for the dimension. Choose something that describes the type and value to make it easy to remember what it does.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

stringValues (p. 633)

Specifies the value or list of values for the dimension. For TOPIC_FILTER dimensions, this is a pattern used to match the MQTT topic (for example, "admin/#").

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Response Syntax

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

{
    "arn": "string",
    "creationDate": number,
```

```
"lastModifiedDate": number,  
"name": "string",  
"stringValues": [ "string" ],  
"type": "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 \(p. 633\)](#)

The Amazon Resource Name (ARN)of the created dimension.

Type: String

[creationDate \(p. 633\)](#)

The date and time, in milliseconds since epoch, when the dimension was initially created.

Type: Timestamp

[lastModifiedDate \(p. 633\)](#)

The date and time, in milliseconds since epoch, when the dimension was most recently updated.

Type: Timestamp

[name \(p. 633\)](#)

A unique identifier for the dimension.

Type: String

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

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

[stringValues \(p. 633\)](#)

The value or list of values used to scope the dimension. For example, for topic filters, this is the pattern used to match the MQTT topic name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

[type \(p. 633\)](#)

The type of the dimension.

Type: String

Valid Values: TOPIC_FILTER

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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

UpdateDomainConfiguration

Service: AWS IoT

Updates values stored in the domain configuration. Domain configurations for default endpoints can't be updated.

Requires permission to access the [UpdateDomainConfiguration](#) action.

Request Syntax

```
PUT /domainConfigurations/domainConfigurationName HTTP/1.1
Content-type: application/json

{
  "authorizerConfig": {
    "allowAuthorizerOverride": boolean,
    "defaultAuthorizerName": "string"
  },
  "domainConfigurationStatus": "string",
  "removeAuthorizerConfig": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[domainConfigurationName \(p. 636\)](#)

The name of the domain configuration to be updated.

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

Pattern: [\w.:-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[authorizerConfig \(p. 636\)](#)

An object that specifies the authorization service for a domain.

Type: [AuthorizerConfig \(p. 839\)](#) object

Required: No

[domainConfigurationStatus \(p. 636\)](#)

The status to which the domain configuration should be updated.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

[removeAuthorizerConfig \(p. 636\)](#)

Removes the authorization configuration from a domain.

Type: Boolean

Required: No

Response Syntax

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

{
  "domainConfigurationArn": "string",
  "domainConfigurationName": "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.

[domainConfigurationArn \(p. 637\)](#)

The ARN of the domain configuration that was updated.

Type: String

[domainConfigurationName \(p. 637\)](#)

The name of the domain configuration that was updated.

Type: String

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

Pattern: [\w.:-]+

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

UpdateDynamicThingGroup

Service: AWS IoT

Updates a dynamic thing group.

Requires permission to access the [UpdateDynamicThingGroup](#) action.

Request Syntax

```
PATCH /dynamic-thing-groups/thingGroupName HTTP/1.1
Content-type: application/json

{
  "expectedVersion": number,
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string": "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

thingGroupName (p. 639)

The name of the dynamic thing group to update.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

expectedVersion (p. 639)

The expected version of the dynamic thing group to update.

Type: Long

Required: No

indexName (p. 639)

The dynamic thing group index to update.

Note

Currently one index is supported: AWS_Things.

Type: String

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

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

Required: No

[queryString \(p. 639\)](#)

The dynamic thing group search query string to update.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[queryVersion \(p. 639\)](#)

The dynamic thing group query version to update.

Note

Currently one query version is supported: "2017-09-30". If not specified, the query version defaults to this value.

Type: String

Required: No

[thingGroupProperties \(p. 639\)](#)

The dynamic thing group properties to update.

Type: [ThingGroupProperties \(p. 1035\)](#) object

Required: Yes

Response Syntax

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

{
    "version": number
}
```

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.

[version \(p. 640\)](#)

The dynamic thing group version.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the expectedVersion parameter does not match the latest version in the system.

HTTP Status Code: 409

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

UpdateEventConfigurations

Service: AWS IoT

Updates the event configurations.

Requires permission to access the [UpdateEventConfigurations](#) action.

Request Syntax

```
PATCH /event-configurations HTTP/1.1
Content-type: application/json

{
  "eventConfigurations": {
    "string": {
      "Enabled": boolean
    }
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[eventConfigurations \(p. 642\)](#)

The new event configuration values.

Type: String to [Configuration \(p. 879\)](#) object map

Valid Keys: THING | THING_GROUP | THING_TYPE | THING_GROUP_MEMBERSHIP | THING_GROUP_HIERARCHY | THING_TYPE_ASSOCIATION | JOB | JOB_EXECUTION | POLICY | CERTIFICATE | CA_CERTIFICATE

Required: No

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

[InternalFailureException](#)

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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

UpdateFleetMetric

Service: AWS IoT

Updates the data for a fleet metric.

Requires permission to access the [UpdateFleetMetric](#) action.

Request Syntax

```
PATCH /fleet-metric/metricName HTTP/1.1
Content-type: application/json

{
    "aggregationField": "string",
    "aggregationType": {
        "name": "string",
        "values": [ "string" ]
    },
    "description": "string",
    "expectedVersion": number,
    "indexName": "string",
    "period": number,
    "queryString": "string",
    "queryVersion": "string",
    "unit": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

metricName (p. 644)

The name of the fleet metric to update.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

aggregationField (p. 644)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: No

aggregationType (p. 644)

The type of the aggregation query.

Type: [AggregationType](#) (p. 818) object

Required: No

[description \(p. 644\)](#)

The description of the fleet metric.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [\\p{Graph}]^{x20}*

Required: No

[expectedVersion \(p. 644\)](#)

The expected version of the fleet metric record in the registry.

Type: Long

Required: No

[indexName \(p. 644\)](#)

The name of the index to search.

Type: String

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

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

Required: Yes

[period \(p. 644\)](#)

The time in seconds between fleet metric emissions. Range [60(1 min), 86400(1 day)] and must be multiple of 60.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

Required: No

[queryString \(p. 644\)](#)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[queryVersion \(p. 644\)](#)

The version of the query.

Type: String

Required: No

[unit \(p. 644\)](#)

Used to support unit transformation such as milliseconds to seconds. The unit must be supported by [CW metric](#).

Type: String

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second | None

Required: No

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

IndexNotFoundException

The index is not ready.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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

UpdateIndexingConfiguration

Service: AWS IoT

Updates the search configuration.

Requires permission to access the [UpdateIndexingConfiguration](#) action.

Request Syntax

```
POST /indexing/config HTTP/1.1
Content-type: application/json

{
  "thingGroupIndexingConfiguration": {
    "customFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "managedFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "thingGroupIndexingMode": "string"
  },
  "thingIndexingConfiguration": {
    "customFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "deviceDefenderIndexingMode": "string",
    "filter": {
      "namedShadowNames": [ "string" ]
    },
    "managedFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "namedShadowIndexingMode": "string",
    "thingConnectivityIndexingMode": "string",
    "thingIndexingMode": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[thingGroupIndexingConfiguration \(p. 648\)](#)

Thing group indexing configuration.

Type: [ThingGroupIndexingConfiguration \(p. 1033\)](#) object

Required: No

[thingIndexingConfiguration \(p. 648\)](#)

Thing indexing configuration.

Type: [ThingIndexingConfiguration \(p. 1036\)](#) object

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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

UpdateJob

Service: AWS IoT

Updates supported fields of the specified job.

Requires permission to access the [UpdateJob](#) action.

Request Syntax

```
PATCH /jobs/jobId?namespaceId=namespaceId HTTP/1.1
Content-type: application/json

{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "description": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    },
    "maximumPerMinute": number
  },
  "presignedUrlConfig": {
    "expiresInSec": number,
    "roleArn": "string"
  },
  "timeoutConfig": {
    "inProgressTimeoutInMinutes": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

jobId (p. 651)

The ID of the job to be updated.

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

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

Required: Yes

[namespaceId \(p. 651\)](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is in public preview.

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

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

Request Body

The request accepts the following data in JSON format.

[abortConfig \(p. 651\)](#)

Allows you to create criteria to abort a job.

Type: [AbortConfig \(p. 808\)](#) object

Required: No

[description \(p. 651\)](#)

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

[jobExecutionsRetryConfig \(p. 651\)](#)

Allows you to create the criteria to retry a job.

Type: [JobExecutionsRetryConfig \(p. 928\)](#) object

Required: No

[jobExecutionsRolloutConfig \(p. 651\)](#)

Allows you to create a staged rollout of the job.

Type: [JobExecutionsRolloutConfig \(p. 929\)](#) object

Required: No

[presignedUrlConfig \(p. 651\)](#)

Configuration information for pre-signed S3 URLs.

Type: [PresignedUrlConfig \(p. 978\)](#) object

Required: No

[timeoutConfig \(p. 651\)](#)

Specifies the amount of time each device has to finish its execution of the job. The timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the time expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig \(p. 1041\)](#) object

Required: No

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

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

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

UpdateMitigationAction

Service: AWS IoT

Updates the definition for the specified mitigation action.

Requires permission to access the [UpdateMitigationAction](#) action.

Request Syntax

```
PATCH /mitigationactions/actions/actionName HTTP/1.1
Content-type: application/json

{
  "actionParams": {
    "addThingsToThingGroupParams": {
      "overrideDynamicGroups": boolean,
      "thingGroupNames": [ "string" ]
    },
    "enableIoTLoggingParams": {
      "logLevel": "string",
      "roleArnForLogging": "string"
    },
    "publishFindingToSnsParams": {
      "topicArn": "string"
    },
    "replaceDefaultPolicyVersionParams": {
      "templateName": "string"
    },
    "updateCACertificateParams": {
      "action": "string"
    },
    "updateDeviceCertificateParams": {
      "action": "string"
    }
  },
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

actionName (p. 655)

The friendly name for the mitigation action. You cannot change the name by using `UpdateMitigationAction`. Instead, you must delete and recreate the mitigation action with the new name.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[actionParams \(p. 655\)](#)

Defines the type of action and the parameters for that action.

Type: [MitigationActionParams \(p. 961\)](#) object

Required: No

[roleArn \(p. 655\)](#)

The ARN of the IAM role that is used to apply the mitigation action.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "actionArn": "string",
    "actionId": "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.

[actionArn \(p. 656\)](#)

The ARN for the new mitigation action.

Type: String

[actionId \(p. 656\)](#)

A unique identifier for the mitigation action.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateProvisioningTemplate

Service: AWS IoT

Updates a provisioning template.

Requires permission to access the [UpdateProvisioningTemplate](#) action.

Request Syntax

```
PATCH /provisioning-templates/templateName HTTP/1.1
Content-type: application/json

{
  "defaultVersionId": number,
  "description": "string",
  "enabled": boolean,
  "preProvisioningHook": {
    "payloadVersion": "string",
    "targetArn": "string"
  },
  "provisioningRoleArn": "string",
  "removePreProvisioningHook": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[templateName \(p. 658\)](#)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: Yes

Request Body

The request accepts the following data in JSON format.

[defaultVersionId \(p. 658\)](#)

The ID of the default provisioning template version.

Type: Integer

Required: No

[description \(p. 658\)](#)

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [^\p{C}]*

Required: No

enabled (p. 658)

True to enable the provisioning template, otherwise false.

Type: Boolean

Required: No

preProvisioningHook (p. 658)

Updates the pre-provisioning hook template. Only supports template of type FLEET_PROVISIONING. For more information about provisioning template types, see [type](#).

Type: [ProvisioningHook \(p. 979\)](#) object

Required: No

provisioningRoleArn (p. 658)

The ARN of the role associated with the provisioning template. This IoT role grants permission to provision a device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

removePreProvisioningHook (p. 658)

Removes pre-provisioning hook template.

Type: Boolean

Required: No

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateRoleAlias

Service: AWS IoT

Updates a role alias.

Requires permission to access the [UpdateRoleAlias](#) action.

Request Syntax

```
PUT /role-aliases/roleAlias HTTP/1.1
Content-type: application/json

{
  "credentialDurationSeconds": number,
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[roleAlias \(p. 661\)](#)

The role alias to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w=, @-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[credentialDurationSeconds \(p. 661\)](#)

The number of seconds the credential will be valid.

This value must be less than or equal to the maximum session duration of the IAM role that the role alias references.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

[roleArn \(p. 661\)](#)

The role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "roleAlias": "string",
    "roleAliasArn": "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.

[roleAlias \(p. 662\)](#)

The role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\\w=, @-] +

[roleAliasArn \(p. 662\)](#)

The role alias ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateScheduledAudit

Service: AWS IoT

Updates a scheduled audit, including which checks are performed and how often the audit takes place.

Requires permission to access the [UpdateScheduledAudit](#) action.

Request Syntax

```
PATCH /audit/scheduledaudits/scheduledAuditName HTTP/1.1
Content-type: application/json

{
  "dayOfMonth": "string",
  "dayOfWeek": "string",
  "frequency": "string",
  "targetCheckNames": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[scheduledAuditName \(p. 664\)](#)

The name of the scheduled audit. (Max. 128 chars)

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[dayOfMonth \(p. 664\)](#)

The day of the month on which the scheduled audit takes place. This can be 1 through 31 or LAST. This field is required if the frequency parameter is set to MONTHLY. If days 29-31 are specified, and the month does not have that many days, the audit takes place on the "LAST" day of the month.

Type: String

Pattern: ^([1-9]|1[2-9]|1[0-9]|3[01])\$|^LAST\$

Required: No

[dayOfWeek \(p. 664\)](#)

The day of the week on which the scheduled audit takes place. This can be one of SUN, MON, TUE, WED, THU, FRI, or SAT. This field is required if the "frequency" parameter is set to WEEKLY or BIWEEKLY.

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

Required: No

[frequency \(p. 664\)](#)

How often the scheduled audit takes place, either DAILY, WEEKLY, BIWEEKLY, or MONTHLY. The start time of each audit is determined by the system.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

Required: No

[targetCheckNames \(p. 664\)](#)

Which checks are performed during the scheduled audit. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: Array of strings

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "scheduledAuditArn": "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.

[scheduledAuditArn \(p. 665\)](#)

The ARN of the scheduled audit.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateSecurityProfile

Service: AWS IoT

Updates a Device Defender security profile.

Requires permission to access the [UpdateSecurityProfile](#) action.

Request Syntax

```
PATCH /security-profiles/securityProfileName?expectedVersion=expectedVersion HTTP/1.1
Content-type: application/json
```

```
{
  "additionalMetricsToRetain": [ "string" ],
  "additionalMetricsToRetainV2": [
    {
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      }
    }
  ],
  "alertTargets": {
    "string" : {
      "alertTargetArn": "string",
      "roleArn": "string"
    }
  },
  "behaviors": [
    {
      "criteria": {
        "comparisonOperator": "string",
        "consecutiveDatapointsToAlarm": number,
        "consecutiveDatapointsToClear": number,
        "durationSeconds": number,
        "mlDetectionConfig": {
          "confidenceLevel": "string"
        },
        "statisticalThreshold": {
          "statistic": "string"
        },
        "value": {
          "cidrs": [ "string" ],
          "count": number,
          "number": number,
          "numbers": [ number ],
          "ports": [ number ],
          "strings": [ "string" ]
        }
      },
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      },
      "name": "string",
      "suppressAlerts": boolean
    }
  ],
  "deleteAdditionalMetricsToRetain": boolean,
  "deleteAlertTargets": boolean,
  "deleteBehaviors": boolean,
```

```
    "securityProfileDescription": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion \(p. 667\)](#)

The expected version of the security profile. A new version is generated whenever the security profile is updated. If you specify a value that is different from the actual version, a `VersionConflictException` is thrown.

[securityProfileName \(p. 667\)](#)

The name of the security profile you want to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[additionalMetricsToRetain \(p. 667\)](#)

This parameter has been deprecated.

Please use [UpdateSecurityProfile:additionalMetricsToRetainV2 \(p. 668\)](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of strings

Required: No

[additionalMetricsToRetainV2 \(p. 667\)](#)

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of [MetricToRetain \(p. 956\)](#) objects

Required: No

[alertTargets \(p. 667\)](#)

Where the alerts are sent. (Alerts are always sent to the console.)

Type: String to [AlertTarget \(p. 819\)](#) object map

Valid Keys: SNS

Required: No

[behaviors \(p. 667\)](#)

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior \(p. 852\)](#) objects

Array Members: Maximum number of 100 items.

Required: No

[deleteAdditionalMetricsToRetain \(p. 667\)](#)

If true, delete all additionalMetricsToRetain defined for this security profile. If any additionalMetricsToRetain are defined in the current invocation, an exception occurs.

Type: Boolean

Required: No

[deleteAlertTargets \(p. 667\)](#)

If true, delete all alertTargets defined for this security profile. If any alertTargets are defined in the current invocation, an exception occurs.

Type: Boolean

Required: No

[deleteBehaviors \(p. 667\)](#)

If true, delete all behaviors defined for this security profile. If any behaviors are defined in the current invocation, an exception occurs.

Type: Boolean

Required: No

[securityProfileDescription \(p. 667\)](#)

A description of the security profile.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "additionalMetricsToRetain": [ "string" ],
    "additionalMetricsToRetainV2": [
        {
            "metric": "string",
            "metricDimension": {
                "dimensionName": "string",
                "operator": "string"
            }
        }
    ]
}
```

```

        }
    ],
    "alertTargets": {
        "string" : {
            "alertTargetArn": "string",
            "roleArn": "string"
        }
    },
    "behaviors": [
        {
            "criteria": {
                "comparisonOperator": "string",
                "consecutiveDatapointsToAlarm": number,
                "consecutiveDatapointsToClear": number,
                "durationSeconds": number,
                "mlDetectionConfig": {
                    "confidenceLevel": "string"
                },
                "statisticalThreshold": {
                    "statistic": "string"
                },
                "value": {
                    "cidrs": [ "string" ],
                    "count": number,
                    "number": number,
                    "numbers": [ number ],
                    "ports": [ number ],
                    "strings": [ "string" ]
                }
            },
            "metric": "string",
            "metricDimension": {
                "dimensionName": "string",
                "operator": "string"
            },
            "name": "string",
            "suppressAlerts": boolean
        }
    ],
    "creationDate": number,
    "lastModifiedDate": number,
    "securityProfileArn": "string",
    "securityProfileDescription": "string",
    "securityProfileName": "string",
    "version": number
}

```

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.

[additionalMetricsToRetain \(p. 669\)](#)

This parameter has been deprecated.

Please use [UpdateSecurityProfile:additionalMetricsToRetainV2 \(p. 671\)](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the security profile's behaviors, but it is also retained for any metric specified here.

Type: Array of strings

[additionalMetricsToRetainV2 \(p. 669\)](#)

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of [MetricToRetain \(p. 956\)](#) objects

[alertTargets \(p. 669\)](#)

Where the alerts are sent. (Alerts are always sent to the console.)

Type: String to [AlertTarget \(p. 819\)](#) object map

Valid Keys: SNS

[behaviors \(p. 669\)](#)

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior \(p. 852\)](#) objects

Array Members: Maximum number of 100 items.

[creationDate \(p. 669\)](#)

The time the security profile was created.

Type: Timestamp

[lastModifiedDate \(p. 669\)](#)

The time the security profile was last modified.

Type: Timestamp

[securityProfileArn \(p. 669\)](#)

The ARN of the security profile that was updated.

Type: String

[securityProfileDescription \(p. 669\)](#)

The description of the security profile.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

[securityProfileName \(p. 669\)](#)

The name of the security profile that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

[version \(p. 669\)](#)

The updated version of the security profile.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateStream

Service: AWS IoT

Updates an existing stream. The stream version will be incremented by one.

Requires permission to access the [UpdateStream](#) action.

Request Syntax

```
PUT /streams/streamId HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "files": [
    {
      "fileId": number,
      "s3Location": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    }
  ],
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[streamId \(p. 673\)](#)

The stream ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[description \(p. 673\)](#)

The description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

[files \(p. 673\)](#)

The files associated with the stream.

Type: Array of [StreamFile \(p. 1017\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

[roleArn \(p. 673\)](#)

An IAM role that allows the IoT service principal assumes to access your S3 files.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "description": "string",
  "streamArn": "string",
  "streamId": "string",
  "streamVersion": number
}
```

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.

[description \(p. 674\)](#)

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

[streamArn \(p. 674\)](#)

The stream ARN.

Type: String

[streamId \(p. 674\)](#)

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

[streamVersion \(p. 674\)](#)

The stream version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateThing

Service: AWS IoT

Updates the data for a thing.

Requires permission to access the [UpdateThing](#) action.

Request Syntax

```
PATCH /things/thingName HTTP/1.1
Content-type: application/json

{
  "attributePayload": {
    "attributes": {
      "string" : "string"
    },
    "merge": boolean
  },
  "expectedVersion": number,
  "removeThingType": boolean,
  "thingTypeName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

thingName (p. 676)

The name of the thing to update.

You can't change a thing's name. To change a thing's name, you must create a new thing, give it the new name, and then delete the old thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

attributePayload (p. 676)

A list of thing attributes, a JSON string containing name-value pairs. For example:

```
{\"attributes\":{\"name1\":\"value2\"}}
```

This data is used to add new attributes or update existing attributes.

Type: [AttributePayload](#) (p. 824) object

Required: No

[expectedVersion \(p. 676\)](#)

The expected version of the thing record in the registry. If the version of the record in the registry does not match the expected version specified in the request, the UpdateThing request is rejected with a VersionConflictException.

Type: Long

Required: No

[removeThingType \(p. 676\)](#)

Remove a thing type association. If **true**, the association is removed.

Type: Boolean

Required: No

[thingTypeName \(p. 676\)](#)

The name of the thing type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateThingGroup

Service: AWS IoT

Update a thing group.

Requires permission to access the [UpdateThingGroup](#) action.

Request Syntax

```
PATCH /thing-groups/thingGroupName HTTP/1.1
Content-type: application/json

{
  "expectedVersion": number,
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string": "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingGroupName \(p. 679\)](#)

The thing group to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[expectedVersion \(p. 679\)](#)

The expected version of the thing group. If this does not match the version of the thing group being updated, the update will fail.

Type: Long

Required: No

[thingGroupProperties \(p. 679\)](#)

The thing group properties.

Type: [ThingGroupProperties \(p. 1035\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "version": number
}
```

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.

version ([p. 680](#))

The version of the updated thing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

HTTP Status Code: 409

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateThingGroupsForThing

Service: AWS IoT

Updates the groups to which the thing belongs.

Requires permission to access the [UpdateThingGroupsForThing](#) action.

Request Syntax

```
PUT /thing-groups/updateThingGroupsForThing HTTP/1.1
Content-type: application/json

{
  "overrideDynamicGroups": boolean,
  "thingGroupsToAdd": [ "string" ],
  "thingGroupsToRemove": [ "string" ],
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[overrideDynamicGroups \(p. 682\)](#)

Override dynamic thing groups with static thing groups when 10-group limit is reached. If a thing belongs to 10 thing groups, and one or more of those groups are dynamic thing groups, adding a thing to a static group removes the thing from the last dynamic group.

Type: Boolean

Required: No

[thingGroupsToAdd \(p. 682\)](#)

The groups to which the thing will be added.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

[thingGroupsToRemove \(p. 682\)](#)

The groups from which the thing will be removed.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

[thingName \(p. 682\)](#)

The thing whose group memberships will be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateTopicRuleDestination

Service: AWS IoT

Updates a topic rule destination. You use this to change the status, endpoint URL, or confirmation URL of the destination.

Requires permission to access the [UpdateTopicRuleDestination](#) action.

Request Syntax

```
PATCH /destinations HTTP/1.1
Content-type: application/json

{
    "arn": "string",
    "status": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[arn \(p. 685\)](#)

The ARN of the topic rule destination.

Type: String

Required: Yes

[status \(p. 685\)](#)

The status of the topic rule destination. Valid values are:

IN_PROGRESS

A topic rule destination was created but has not been confirmed. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

ENABLED

Confirmation was completed, and traffic to this destination is allowed. You can set status to DISABLED by calling UpdateTopicRuleDestination.

DISABLED

Confirmation was completed, and traffic to this destination is not allowed. You can set status to ENABLED by calling UpdateTopicRuleDestination.

ERROR

Confirmation could not be completed, for example if the confirmation timed out. You can call GetTopicRuleDestination for details about the error. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

Type: String

Valid Values: ENABLED | IN_PROGRESS | DISABLED | ERROR | DELETING

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

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ValidateSecurityProfileBehaviors

Service: AWS IoT

Validates a Device Defender security profile behaviors specification.

Requires permission to access the [ValidateSecurityProfileBehaviors](#) action.

Request Syntax

```
POST /security-profile-behaviors/validate HTTP/1.1
Content-type: application/json

{
  "behaviors": [
    {
      "criteria": {
        "comparisonOperator": "string",
        "consecutiveDatapointsToAlarm": number,
        "consecutiveDatapointsToClear": number,
        "durationSeconds": number,
        "mlDetectionConfig": {
          "confidenceLevel": "string"
        },
        "statisticalThreshold": {
          "statistic": "string"
        },
        "value": {
          "cidrs": [ "string" ],
          "count": number,
          "number": number,
          "numbers": [ number ],
          "ports": [ number ],
          "strings": [ "string" ]
        }
      },
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      },
      "name": "string",
      "suppressAlerts": boolean
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

behaviors (p. 688)

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior](#) (p. 852) objects

Array Members: Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "valid": boolean,
    "validationErrors": [
        {
            "errorMessage": 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.

valid ([p. 689](#))

True if the behaviors were valid.

Type: Boolean

validationErrors ([p. 689](#))

The list of any errors found in the behaviors.

Type: Array of [ValidationError](#) ([p. 1061](#)) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AWS IoT data

The following actions are supported by AWS IoT data:

- [DeleteThingShadow \(p. 691\)](#)
- [GetRetainedMessage \(p. 694\)](#)
- [GetThingShadow \(p. 697\)](#)
- [ListNamedShadowsForThing \(p. 700\)](#)
- [ListRetainedMessages \(p. 703\)](#)
- [Publish \(p. 706\)](#)
- [UpdateThingShadow \(p. 708\)](#)

DeleteThingShadow

Service: AWS IoT data

Deletes the shadow for the specified thing.

Requires permission to access the [DeleteThingShadow](#) action.

For more information, see [DeleteThingShadow](#) in the AWS IoT Developer Guide.

Request Syntax

```
DELETE /things/thingName/shadow?name=shadowName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

shadowName (p. 691)

The name of the shadow.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9:_-]+

thingName (p. 691)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
payload
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

[payload \(p. 691\)](#)

The state information, in JSON format.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

UnsupportedDocumentEncodingException

The document encoding is not supported.

HTTP Status Code: 415

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

GetRetainedMessage

Service: AWS IoT data

Gets the details of a single retained message for the specified topic.

This action returns the message payload of the retained message, which can incur messaging costs. To list only the topic names of the retained messages, call [ListRetainedMessages](#).

Requires permission to access the [GetRetainedMessage](#) action.

For more information about messaging costs, see [AWS IoT Core pricing - Messaging](#).

Request Syntax

```
GET /retainedMessage/topic HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

topic (p. 694)

The topic name of the retained message to retrieve.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "lastModifiedTime": number,
    "payload": blob,
    "qos": number,
    "topic": "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.

lastModifiedTime (p. 694)

The Epoch date and time, in milliseconds, when the retained message was stored by AWS IoT.

Type: Long

payload (p. 694)

The Base64-encoded message payload of the retained message body.

Type: Base64-encoded binary data object

qos (p. 694)

The quality of service (QoS) level used to publish the retained message.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

topic (p. 694)

The topic name to which the retained message was published.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetThingShadow

Service: AWS IoT data

Gets the shadow for the specified thing.

Requires permission to access the [GetThingShadow](#) action.

For more information, see [GetThingShadow](#) in the AWS IoT Developer Guide.

Request Syntax

```
GET /things/thingName/shadow?name=shadowName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[shadowName \(p. 697\)](#)

The name of the shadow.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9:_-]+

[thingName \(p. 697\)](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
payload
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

[payload \(p. 697\)](#)

The state information, in JSON format.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

UnsupportedDocumentEncodingException

The document encoding is not supported.

HTTP Status Code: 415

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListNamedShadowsForThing

Service: AWS IoT data

Lists the shadows for the specified thing.

Requires permission to access the [ListNamedShadowsForThing](#) action.

Request Syntax

```
GET /api/things/shadow/ListNamedShadowsForThing/thingName?  
nextToken=nextToken&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[nextToken \(p. 700\)](#)

The token to retrieve the next set of results.

[pageSize \(p. 700\)](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 100.

[thingName \(p. 700\)](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

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  
  
{  
    "nextToken": "string",  
    "results": [ "string" ],  
    "timestamp": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken \(p. 700\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

[results \(p. 700\)](#)

The list of shadows for the specified thing.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9:_-]+

[timestamp \(p. 700\)](#)

The Epoch date and time the response was generated by AWS IoT.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListRetainedMessages

Service: AWS IoT data

Lists summary information about the retained messages stored for the account.

This action returns only the topic names of the retained messages. It doesn't return any message payloads. Although this action doesn't return a message payload, it can still incur messaging costs.

To get the message payload of a retained message, call [GetRetainedMessage](#) with the topic name of the retained message.

Requires permission to access the [ListRetainedMessages](#) action.

For more information about messaging costs, see [AWS IoT Core pricing - Messaging](#).

Request Syntax

```
GET /retainedMessage?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 703\)](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 200.

[nextToken \(p. 703\)](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "retainedTopics": [
    {
      "lastModifiedTime": number,
      "payloadSize": number,
      "qos": number,
      "topic": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken (p. 703)

The token for the next set of results, or null if there are no additional results.

Type: String

retainedTopics (p. 703)

A summary list the account's retained messages. The information returned doesn't include the message payloads of the retained messages.

Type: Array of [RetainedMessageSummary \(p. 1069\)](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Publish

Service: AWS IoT data

Publishes an MQTT message.

Requires permission to access the [Publish](#) action.

For more information about MQTT messages, see [MQTT Protocol](#) in the AWS IoT Developer Guide.

For more information about messaging costs, see [AWS IoT Core pricing - Messaging](#).

Request Syntax

```
POST /topics/topic?qos=qos&retain=retain HTTP/1.1  
payload
```

URI Request Parameters

The request uses the following URI parameters.

[qos \(p. 706\)](#)

The Quality of Service (QoS) level. The default QoS level is 0.

Valid Range: Minimum value of 0. Maximum value of 1.

[retain \(p. 706\)](#)

A Boolean value that determines whether to set the RETAIN flag when the message is published.

Setting the RETAIN flag causes the message to be retained and sent to new subscribers to the topic.

Valid values: true | false

Default value: false

[topic \(p. 706\)](#)

The name of the MQTT topic.

Required: Yes

Request Body

The request accepts the following binary data.

[payload \(p. 706\)](#)

The message body. MQTT accepts text, binary, and empty (null) message payloads.

Publishing an empty (null) payload with **retain = true** deletes the retained message identified by **topic** from AWS IoT Core.

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

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateThingShadow

Service: AWS IoT data

Updates the shadow for the specified thing.

Requires permission to access the [UpdateThingShadow](#) action.

For more information, see [UpdateThingShadow](#) in the AWS IoT Developer Guide.

Request Syntax

```
POST /things/thingName/shadow?name=shadowName HTTP/1.1
```

```
payload
```

URI Request Parameters

The request uses the following URI parameters.

[shadowName \(p. 708\)](#)

The name of the shadow.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9:_-]+

[thingName \(p. 708\)](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following binary data.

[payload \(p. 708\)](#)

The state information, in JSON format.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
payload
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

payload (p. 708)

The state information, in JSON format.

Errors

ConflictException

The specified version does not match the version of the document.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

HTTP Status Code: 405

RequestEntityTooLargeException

The payload exceeds the maximum size allowed.

HTTP Status Code: 413

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

HTTP Status Code: 401

UnsupportedDocumentEncodingException

The document encoding is not supported.

HTTP Status Code: 415

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AWS IoT jobs data

The following actions are supported by AWS IoT jobs data:

- [DescribeJobExecution \(p. 711\)](#)
- [GetPendingJobExecutions \(p. 714\)](#)
- [StartNextPendingJobExecution \(p. 717\)](#)
- [UpdateJobExecution \(p. 720\)](#)

DescribeJobExecution

Service: AWS IoT jobs data

Gets details of a job execution.

Requires permission to access the [DescribeJobExecution](#) action.

Request Syntax

```
GET /things/thingName/jobs/jobId?  
executionNumber=executionNumber&includeJobDocument=includeJobDocument&namespaceId=namespaceId  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[executionNumber \(p. 711\)](#)

Optional. A number that identifies a particular job execution on a particular device. If not specified, the latest job execution is returned.

[includeJobDocument \(p. 711\)](#)

Optional. Unless set to false, the response contains the job document. The default is true.

[jobId \(p. 711\)](#)

The unique identifier assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+|^\$next

Required: Yes

[namespaceId \(p. 711\)](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is in public preview.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

[thingName \(p. 711\)](#)

The thing name associated with the device the job execution is running on.

Length Constraints: Minimum length of 1. Maximum length of 128.

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

{
    "execution": {
        "approximateSecondsBeforeTimedOut": number,
        "executionNumber": number,
        "jobDocument": "string",
        "jobId": "string",
        "lastUpdatedAt": number,
        "queuedAt": number,
        "startedAt": number,
        "status": "string",
        "statusDetails": {
            "string": "string"
        },
        "thingName": "string",
        "versionNumber": number
    }
}
```

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.

[execution \(p. 712\)](#)

Contains data about a job execution.

Type: [JobExecution \(p. 1071\)](#) object

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

TerminalStateException

The job is in a terminal state.

HTTP Status Code: 410

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetPendingJobExecutions

Service: AWS IoT jobs data

Gets the list of all jobs for a thing that are not in a terminal status.

Requires permission to access the [GetPendingJobExecutions](#) action.

Request Syntax

```
GET /things/thingName/jobs?namespaceId=namespaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

namespaceId (p. 714)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

```
$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/
```

Note

The namespaceId feature is in public preview.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

thingName (p. 714)

The name of the thing that is executing the job.

Length Constraints: Minimum length of 1. Maximum length of 128.

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

{
  "inProgressJobs": [
    {
      "executionNumber": number,
      "jobId": "string",
      "lastUpdatedAt": number,
      "queuedAt": number,
      "startedAt": number,
    }
  ]
}
```

```
        "versionNumber": number
    }
],
"queuedJobs": [
{
    "executionNumber": number,
    "jobId": "string",
    "lastUpdatedAt": number,
    "queuedAt": number,
    "startedAt": number,
    "versionNumber": number
}
]
```

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.

[inProgressJobs \(p. 714\)](#)

A list of JobExecutionSummary objects with status IN_PROGRESS.

Type: Array of [JobExecutionSummary \(p. 1075\)](#) objects

[queuedJobs \(p. 714\)](#)

A list of JobExecutionSummary objects with status QUEUED.

Type: Array of [JobExecutionSummary \(p. 1075\)](#) objects

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartNextPendingJobExecution

Service: AWS IoT jobs data

Gets and starts the next pending (status IN_PROGRESS or QUEUED) job execution for a thing.

Requires permission to access the [StartNextPendingJobExecution](#) action.

Request Syntax

```
PUT /things/thingName/jobs/$next?namespaceId=namespaceId HTTP/1.1
Content-type: application/json

{
  "statusDetails": {
    "string" : "string"
  },
  "stepTimeoutInMinutes": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[namespaceId](#) (p. 717)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is in public preview.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

[thingName](#) (p. 717)

The name of the thing associated with the device.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[statusDetails](#) (p. 717)

A collection of name/value pairs that describe the status of the job execution. If not specified, the statusDetails are unchanged.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

[stepTimeoutInMinutes \(p. 717\)](#)

Specifies the amount of time this device has to finish execution of this job. If the job execution status is not set to a terminal state before this timer expires, or before the timer is reset (by calling `UpdateJobExecution`, setting the status to `IN_PROGRESS`, and specifying a new timeout value in field `stepTimeoutInMinutes`) the job execution status will be automatically set to `TIMED_OUT`. Note that setting the step timeout has no effect on the in progress timeout that may have been specified when the job was created (`CreateJob` using field `timeoutConfig`).

Valid values for this parameter range from 1 to 10080 (1 minute to 7 days).

Type: Long

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "execution": {
    "approximateSecondsBeforeTimedOut": number,
    "executionNumber": number,
    "jobDocument": "string",
    "jobId": "string",
    "lastUpdatedAt": number,
    "queuedAt": number,
    "startedAt": number,
    "status": "string",
    "statusDetails": [
      "string" : "string"
    ],
    "thingName": "string",
    "versionNumber": number
  }
}
```

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.

[execution \(p. 718\)](#)

A JobExecution object.

Type: [JobExecution \(p. 1071\)](#) object

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateJobExecution

Service: AWS IoT jobs data

Updates the status of a job execution.

Requires permission to access the [UpdateJobExecution](#) action.

Request Syntax

```
POST /things/thingName/jobs/jobId?namespaceId=namespaceId HTTP/1.1
Content-type: application/json

{
  "executionNumber": number,
  "expectedVersion": number,
  "includeJobDocument": boolean,
  "includeJobExecutionState": boolean,
  "status": "string",
  "statusDetails": {
    "string": "string"
  },
  "stepTimeoutInMinutes": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[jobId](#) (p. 720)

The unique identifier assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

[namespaceId](#) (p. 720)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is in public preview.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

[thingName](#) (p. 720)

The name of the thing associated with the device.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[executionNumber \(p. 720\)](#)

Optional. A number that identifies a particular job execution on a particular device.

Type: Long

Required: No

[expectedVersion \(p. 720\)](#)

Optional. The expected current version of the job execution. Each time you update the job execution, its version is incremented. If the version of the job execution stored in Jobs does not match, the update is rejected with a VersionMismatch error, and an ErrorResponse that contains the current job execution status data is returned. (This makes it unnecessary to perform a separate DescribeJobExecution request in order to obtain the job execution status data.)

Type: Long

Required: No

[includeJobDocument \(p. 720\)](#)

Optional. When set to true, the response contains the job document. The default is false.

Type: Boolean

Required: No

[includeJobExecutionState \(p. 720\)](#)

Optional. When included and set to true, the response contains the JobExecutionState data. The default is false.

Type: Boolean

Required: No

[status \(p. 720\)](#)

The new status for the job execution (IN_PROGRESS, FAILED, SUCCESS, or REJECTED). This must be specified on every update.

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: Yes

[statusDetails \(p. 720\)](#)

Optional. A collection of name/value pairs that describe the status of the job execution. If not specified, the statusDetails are unchanged.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

stepTimeoutInMinutes (p. 720)

Specifies the amount of time this device has to finish execution of this job. If the job execution status is not set to a terminal state before this timer expires, or before the timer is reset (by again calling UpdateJobExecution, setting the status to IN_PROGRESS, and specifying a new timeout value in this field) the job execution status will be automatically set to TIMED_OUT. Note that setting or resetting the step timeout has no effect on the in progress timeout that may have been specified when the job was created (CreateJob using field `timeoutConfig`).

Valid values for this parameter range from 1 to 10080 (1 minute to 7 days). A value of -1 is also valid and will cancel the current step timer (created by an earlier use of `UpdateJobExecutionRequest`).

Type: Long

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "executionState": {
    "status": "string",
    "statusDetails": {
      "string" : "string"
    },
    "versionNumber": number
  },
  "jobDocument": "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.

executionState (p. 722)

A JobExecutionState object.

Type: [JobExecutionState \(p. 1074\)](#) object

jobDocument (p. 722)

The contents of the Job Documents.

Type: String

Length Constraints: Maximum length of 32768.

Errors

CertificateValidationException

The certificate is invalid.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

HTTP Status Code: 400

InvalidStateTransitionException

An update attempted to change the job execution to a state that is invalid because of the job execution's current state (for example, an attempt to change a request in state SUCCESS to state IN_PROGRESS). In this case, the body of the error message also contains the executionState field.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Core Device Advisor

The following actions are supported by AWS IoT Core Device Advisor:

- [CreateSuiteDefinition \(p. 725\)](#)
- [DeleteSuiteDefinition \(p. 728\)](#)
- [GetEndpoint \(p. 730\)](#)
- [GetSuiteDefinition \(p. 732\)](#)
- [GetSuiteRun \(p. 735\)](#)
- [GetSuiteRunReport \(p. 739\)](#)
- [ListSuiteDefinitions \(p. 741\)](#)
- [ListSuiteRuns \(p. 743\)](#)
- [ListTagsForResource \(p. 746\)](#)
- [StartSuiteRun \(p. 748\)](#)
- [StopSuiteRun \(p. 751\)](#)
- [TagResource \(p. 753\)](#)
- [UntagResource \(p. 755\)](#)
- [UpdateSuiteDefinition \(p. 757\)](#)

CreateSuiteDefinition

Service: AWS IoT Core Device Advisor

Creates a Device Advisor test suite.

Requires permission to access the [CreateSuiteDefinition](#) action.

Request Syntax

```
POST /suiteDefinitions HTTP/1.1
Content-type: application/json

{
  "suiteDefinitionConfiguration": {
    "devicePermissionRoleArn": "string",
    "devices": [
      {
        "certificateArn": "string",
        "thingArn": "string"
      }
    ],
    "intendedForQualification": boolean,
    "rootGroup": "string",
    "suiteDefinitionName": "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.

[suiteDefinitionConfiguration \(p. 725\)](#)

Creates a Device Advisor test suite with suite definition configuration.

Type: [SuiteDefinitionConfiguration \(p. 1079\)](#) object

Required: No

[tags \(p. 725\)](#)

The tags to be attached to the suite definition.

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 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdAt": number,
  "suiteDefinitionArn": "string",
  "suiteDefinitionId": "string",
  "suiteDefinitionName": "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.

[createdAt \(p. 726\)](#)

Creates a Device Advisor test suite with TimeStamp of when it was created.

Type: Timestamp

[suiteDefinitionArn \(p. 726\)](#)

Creates a Device Advisor test suite with Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

[suiteDefinitionId \(p. 726\)](#)

Creates a Device Advisor test suite with suite UUID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionName \(p. 726\)](#)

Creates a Device Advisor test suite with suite definition name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteSuiteDefinition

Service: AWS IoT Core Device Advisor

Deletes a Device Advisor test suite.

Requires permission to access the [DeleteSuiteDefinition](#) action.

Request Syntax

```
DELETE /suiteDefinitions/suiteDefinitionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

suiteDefinitionId (p. 728)

Suite definition ID of the test suite to be deleted.

Length Constraints: Minimum length of 12. Maximum length of 36.

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

InternalServerException

Sends an Internal Failure exception.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetEndpoint

Service: AWS IoT Core Device Advisor

Gets information about an Device Advisor endpoint.

Request Syntax

```
GET /endpoint?certificateArn=certificateArn&thingArn=thingArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateArn \(p. 730\)](#)

The certificate ARN of the device. This is an optional parameter.

Length Constraints: Minimum length of 20. Maximum length of 2048.

[thingArn \(p. 730\)](#)

The thing ARN of the device. This is an optional parameter.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "endpoint": "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.

[endpoint \(p. 730\)](#)

The response of an Device Advisor endpoint.

Type: String

Length Constraints: Minimum length of 45. Maximum length of 75.

Errors

[InternalServerException](#)

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetSuiteDefinition

Service: AWS IoT Core Device Advisor

Gets information about a Device Advisor test suite.

Requires permission to access the [GetSuiteDefinition](#) action.

Request Syntax

```
GET /suiteDefinitions/suiteDefinitionId?suiteDefinitionVersion=suiteDefinitionVersion
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId](#) (p. 732)

Suite definition ID of the test suite to get.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

[suiteDefinitionVersion](#) (p. 732)

Suite definition version of the test suite to get.

Length Constraints: Minimum length of 2. Maximum length of 255.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "createdAt": number,
    "lastModifiedAt": number,
    "latestVersion": "string",
    "suiteDefinitionArn": "string",
    "suiteDefinitionConfiguration": {
        "devicePermissionRoleArn": "string",
        "devices": [
            {
                "certificateArn": "string",
                "thingArn": "string"
            }
        ],
        "intendedForQualification": boolean,
        "rootGroup": "string",
        "suiteDefinitionName": "string"
    },
    "suiteDefinitionId": "string",
    "suiteDefinitionVersion": "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.

[createdAt \(p. 732\)](#)

Date (in Unix epoch time) when the suite definition was created.

Type: Timestamp

[lastModifiedAt \(p. 732\)](#)

Date (in Unix epoch time) when the suite definition was last modified.

Type: Timestamp

[latestVersion \(p. 732\)](#)

Latest suite definition version of the suite definition.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

[suiteDefinitionArn \(p. 732\)](#)

The ARN of the suite definition.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

[suiteDefinitionConfiguration \(p. 732\)](#)

Suite configuration of the suite definition.

Type: [SuiteDefinitionConfiguration \(p. 1079\)](#) object

[suiteDefinitionId \(p. 732\)](#)

Suite definition ID of the suite definition.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionVersion \(p. 732\)](#)

Suite definition version of the suite definition.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

[tags \(p. 732\)](#)

Tags attached to the suite definition.

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 1. Maximum length of 256.

Errors

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetSuiteRun

Service: AWS IoT Core Device Advisor

Gets information about a Device Advisor test suite run.

Requires permission to access the [GetSuiteRun](#) action.

Request Syntax

```
GET /suiteDefinitions/suiteDefinitionId/suiteRuns/suiteRunId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId \(p. 735\)](#)

Suite definition ID for the test suite run.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

[suiteRunId \(p. 735\)](#)

Suite run ID for the test suite run.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "endTime": number,
  "errorReason": "string",
  "startTime": number,
  "status": "string",
  "suiteDefinitionId": "string",
  "suiteDefinitionVersion": "string",
  "suiteRunArn": "string",
  "suiteRunConfiguration": {
    "parallelRun": boolean,
    "primaryDevice": {
      "certificateArn": "string",
      "thingArn": "string"
    },
    "selectedTestList": [ "string" ]
  },
  "suiteRunId": "string",
  "tags": {
```

```
        "string" : "string"
    },
    "testResult": {
        "groups": [
            {
                "groupId": "string",
                "groupName": "string",
                "tests": [
                    {
                        "endTime": number,
                        "failure": "string",
                        "logUrl": "string",
                        "startTime": number,
                        "status": "string",
                        "testCaseDefinitionId": "string",
                        "testCaseDefinitionName": "string",
                        "testCaseRunId": "string",
                        "warnings": "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.

[endTime \(p. 735\)](#)

Date (in Unix epoch time) when the test suite run ended.

Type: Timestamp

[errorReason \(p. 735\)](#)

Error reason for any test suite run failure.

Type: String

[startTime \(p. 735\)](#)

Date (in Unix epoch time) when the test suite run started.

Type: Timestamp

[status \(p. 735\)](#)

Status for the test suite run.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

[suiteDefinitionId \(p. 735\)](#)

Suite definition ID for the test suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionVersion \(p. 735\)](#)

Suite definition version for the test suite run.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

[suiteRunArn \(p. 735\)](#)

The ARN of the suite run.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

[suiteRunConfiguration \(p. 735\)](#)

Suite run configuration for the test suite run.

Type: [SuiteRunConfiguration \(p. 1083\)](#) object

[suiteRunId \(p. 735\)](#)

Suite run ID for the test suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

[tags \(p. 735\)](#)

The tags attached to the suite run.

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 1. Maximum length of 256.

[testResult \(p. 735\)](#)

Test results for the test suite run.

Type: [TestResult \(p. 1088\)](#) object

Errors

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetSuiteRunReport

Service: AWS IoT Core Device Advisor

Gets a report download link for a successful Device Advisor qualifying test suite run.

Requires permission to access the [GetSuiteRunReport](#) action.

Request Syntax

```
GET /suiteDefinitions/suiteDefinitionId/suiteRuns/suiteRunId/report HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId \(p. 739\)](#)

Suite definition ID of the test suite.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

[suiteRunId \(p. 739\)](#)

Suite run ID of the test suite run.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "qualificationReportDownloadUrl": "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.

[qualificationReportDownloadUrl \(p. 739\)](#)

Download URL of the qualification report.

Type: String

Errors

InternalServerException

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListSuiteDefinitions

Service: AWS IoT Core Device Advisor

Lists the Device Advisor test suites you have created.

Requires permission to access the [ListSuiteDefinitions](#) action.

Request Syntax

```
GET /suiteDefinitions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 741\)](#)

The maximum number of results to return at once.

Valid Range: Minimum value of 1. Maximum value of 50.

[nextToken \(p. 741\)](#)

A token used to get the next set of results.

Length Constraints: Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "nextToken": "string",
    "suiteDefinitionInformationList": [
        {
            "createdAt": number,
            "defaultDevices": [
                {
                    "certificateArn": "string",
                    "thingArn": "string"
                }
            ],
            "intendedForQualification": boolean,
            "suiteDefinitionId": "string",
            "suiteDefinitionName": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken \(p. 741\)](#)

A token used to get the next set of results.

Type: String

Length Constraints: Maximum length of 2000.

[suiteDefinitionInformationList \(p. 741\)](#)

An array of objects that provide summaries of information about the suite definitions in the list.

Type: Array of [SuiteDefinitionInformation \(p. 1081\)](#) objects

Errors

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListSuiteRuns

Service: AWS IoT Core Device Advisor

Lists runs of the specified Device Advisor test suite. You can list all runs of the test suite, or the runs of a specific version of the test suite.

Requires permission to access the [ListSuiteRuns](#) action.

Request Syntax

```
GET /suiteRuns?  
maxResults=maxResults&nextToken=nextToken&suiteDefinitionId=suiteDefinitionId&suiteDefinitionVersion=suiteDefinitionVersion  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 743\)](#)

The maximum number of results to return at once.

Valid Range: Minimum value of 1. Maximum value of 50.

[nextToken \(p. 743\)](#)

A token to retrieve the next set of results.

Length Constraints: Maximum length of 2000.

[suiteDefinitionId \(p. 743\)](#)

Lists the test suite runs of the specified test suite based on suite definition ID.

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionVersion \(p. 743\)](#)

Must be passed along with suiteDefinitionId. Lists the test suite runs of the specified test suite based on suite definition version.

Length Constraints: Minimum length of 2. Maximum length of 255.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "nextToken": "string",  
    "suiteRunsList": [  
        {  
            "createdAt": number,  
            "endAt": number,  
            "failed": number,  
            "id": "string",  
            "name": "string",  
            "status": "string",  
            "startAt": number  
        }  
    ]  
}
```

```
        "passed": number,
        "startedAt": number,
        "status": "string",
        "suiteDefinitionId": "string",
        "suiteDefinitionName": "string",
        "suiteDefinitionVersion": "string",
        "suiteRunId": "string"
    }
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken \(p. 743\)](#)

A token to retrieve the next set of results.

Type: String

Length Constraints: Maximum length of 2000.

[suiteRunsList \(p. 743\)](#)

An array of objects that provide summaries of information about the suite runs in the list.

Type: Array of [SuiteRunInformation \(p. 1084\)](#) objects

Errors

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: AWS IoT Core Device Advisor

Lists the tags attached to an IoT Device Advisor resource.

Requires permission to access the [ListTagsForResource](#) action.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 746\)](#)

The ARN of the IoT Device Advisor resource.

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 \(p. 746\)](#)

The tags attached to the IoT Device Advisor 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 1. Maximum length of 256.

Errors

InternalServerException

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartSuiteRun

Service: AWS IoT Core Device Advisor

Starts a Device Advisor test suite run.

Requires permission to access the [StartSuiteRun](#) action.

Request Syntax

```
POST /suiteDefinitions/suiteDefinitionId/suiteRuns HTTP/1.1
Content-type: application/json

{
    "suiteDefinitionVersion": "string",
    "suiteRunConfiguration": {
        "parallelRun": boolean,
        "primaryDevice": {
            "certificateArn": "string",
            "thingArn": "string"
        },
        "selectedTestList": [ "string" ]
    },
    "tags": {
        "string": "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId \(p. 748\)](#)

Suite definition ID of the test suite.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[suiteDefinitionVersion \(p. 748\)](#)

Suite definition version of the test suite.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

Required: No

[suiteRunConfiguration \(p. 748\)](#)

Suite run configuration.

Type: [SuiteRunConfiguration \(p. 1083\)](#) object

Required: No

[tags \(p. 748\)](#)

The tags to be attached to the suite run.

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 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdAt": number,
  "suiteRunArn": "string",
  "suiteRunId": "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.

[createdAt \(p. 749\)](#)

Starts a Device Advisor test suite run based on suite create time.

Type: Timestamp

[suiteRunArn \(p. 749\)](#)

Amazon Resource Name (ARN) of the started suite run.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

[suiteRunId \(p. 749\)](#)

Suite Run ID of the started suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Errors

ConflictException

Sends a Conflict Exception.

HTTP Status Code: 400

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StopSuiteRun

Service: AWS IoT Core Device Advisor

Stops a Device Advisor test suite run that is currently running.

Requires permission to access the [StopSuiteRun](#) action.

Request Syntax

```
POST /suiteDefinitions/suiteDefinitionId/suiteRuns/suiteRunId/stop HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId \(p. 751\)](#)

Suite definition ID of the test suite run to be stopped.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

[suiteRunId \(p. 751\)](#)

Suite run ID of the test suite run to be stopped.

Length Constraints: Minimum length of 12. Maximum length of 36.

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

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Service: AWS IoT Core Device Advisor

Adds to and modifies existing tags of an IoT Device Advisor resource.

Requires permission to access the [TagResource](#) action.

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 \(p. 753\)](#)

The resource ARN of an IoT Device Advisor resource.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[tags \(p. 753\)](#)

The tags to be attached to the IoT Device Advisor 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 1. 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

InternalServerException

Sends an Internal Failure exception.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: AWS IoT Core Device Advisor

Removes tags from an IoT Device Advisor resource.

Requires permission to access the [UntagResource](#) action.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 755\)](#)

The resource ARN of an IoT Device Advisor resource.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

[tagKeys \(p. 755\)](#)

List of tag keys to remove from the IoT Device Advisor resource.

Array Members: Minimum number of 0 items. Maximum number of 50 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

[InternalServerException](#)

Sends an Internal Failure exception.

HTTP Status Code: 500

[ResourceNotFoundException](#)

Sends a Resource Not Found exception.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateSuiteDefinition

Service: AWS IoT Core Device Advisor

Updates a Device Advisor test suite.

Requires permission to access the [UpdateSuiteDefinition](#) action.

Request Syntax

```
PATCH /suiteDefinitions/suiteDefinitionId HTTP/1.1
Content-type: application/json

{
  "suiteDefinitionConfiguration": {
    "devicePermissionRoleArn": "string",
    "devices": [
      {
        "certificateArn": "string",
        "thingArn": "string"
      }
    ],
    "intendedForQualification": boolean,
    "rootGroup": "string",
    "suiteDefinitionName": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId \(p. 757\)](#)

Suite definition ID of the test suite to be updated.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[suiteDefinitionConfiguration \(p. 757\)](#)

Updates a Device Advisor test suite with suite definition configuration.

Type: [SuiteDefinitionConfiguration \(p. 1079\)](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{  
    "createdAt": number,  
    "lastUpdatedAt": number,  
    "suiteDefinitionArn": "string",  
    "suiteDefinitionId": "string",  
    "suiteDefinitionName": "string",  
    "suiteDefinitionVersion": "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.

[createdAt \(p. 757\)](#)

Timestamp of when the test suite was created.

Type: Timestamp

[lastUpdatedAt \(p. 757\)](#)

Timestamp of when the test suite was updated.

Type: Timestamp

[suiteDefinitionArn \(p. 757\)](#)

Amazon Resource Name (ARN) of the updated test suite.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

[suiteDefinitionId \(p. 757\)](#)

Suite definition ID of the updated test suite.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionName \(p. 757\)](#)

Suite definition name of the updated test suite.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

[suiteDefinitionVersion \(p. 757\)](#)

Suite definition version of the updated test suite.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

Errors

InternalServerError

Sends an Internal Failure exception.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Fleet Hub

The following actions are supported by AWS IoT Fleet Hub:

- [CreateApplication \(p. 760\)](#)
- [DeleteApplication \(p. 763\)](#)
- [DescribeApplication \(p. 765\)](#)
- [ListApplications \(p. 769\)](#)
- [ListTagsForResource \(p. 771\)](#)
- [TagResource \(p. 773\)](#)
- [UntagResource \(p. 775\)](#)
- [UpdateApplication \(p. 777\)](#)

CreateApplication

Service: AWS IoT Fleet Hub

Creates a Fleet Hub for AWS IoT Device Management web application.

Request Syntax

```
POST /applications HTTP/1.1
Content-type: application/json

{
    "applicationDescription": "string",
    "applicationName": "string",
    "clientToken": "string",
    "roleArn": "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.

[applicationDescription \(p. 760\)](#)

An optional description of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^[-~]*\$

Required: No

[applicationName \(p. 760\)](#)

The name of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: ^[-~]*\$

Required: Yes

[clientToken \(p. 760\)](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[roleArn \(p. 760\)](#)

The ARN of the role that the web application assumes when it interacts with AWS IoT Core.

Note

The name of the role must be in the form AWSIoTfleetHub_*random_string*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

Required: Yes

[tags \(p. 760\)](#)

A set of key/value pairs that you can use to manage the web application resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ^([\\p{L}\\p{Z}\\p{N}_.:/=+\\-@]*)\$

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "applicationArn": "string",
    "applicationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

[applicationArn \(p. 761\)](#)

The ARN of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

[applicationId \(p. 761\)](#)

The unique Id of the web application.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

HTTP Status Code: 410

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteApplication

Service: AWS IoT Fleet Hub

Deletes a Fleet Hub for AWS IoT Device Management web application.

Request Syntax

```
DELETE /applications/applicationId?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId (p. 763)

The unique Id of the web application.

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$

Required: Yes

clientToken (p. 763)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: ^[a-zA-Z0-9-_]+\$

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeApplication

Service: AWS IoT Fleet Hub

Gets information about a Fleet Hub for AWS IoT Device Management web application.

Request Syntax

```
GET /applications/applicationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId (p. 765)

The unique Id of the web application.

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "applicationArn": "string",
    "applicationCreationDate": number,
    "applicationDescription": "string",
    "applicationId": "string",
    "applicationLastUpdateDate": number,
    "applicationName": "string",
    "applicationState": "string",
    "applicationUrl": "string",
    "errorMessage": "string",
    "roleArn": "string",
    "ssoClientId": "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.

[applicationArn \(p. 765\)](#)

The ARN of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

[applicationCreationDate \(p. 765\)](#)

The date (in Unix epoch time) when the application was created.

Type: Long

[applicationDescription \(p. 765\)](#)

An optional description of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^[-~]*\$

[applicationId \(p. 765\)](#)

The unique Id of the web application.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$

[applicationLastUpdateDate \(p. 765\)](#)

The date (in Unix epoch time) when the application was last updated.

Type: Long

[applicationName \(p. 765\)](#)

The name of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: ^[-~]*\$

[applicationState \(p. 765\)](#)

The current state of the web application.

Type: String

Valid Values: CREATING | DELETING | ACTIVE | CREATE_FAILED | DELETE_FAILED

[applicationUrl \(p. 765\)](#)

The URL of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^https\:\/\/\S+\$

[errorMessage \(p. 765\)](#)

A message that explains any failures included in the `applicationState` response field. This message explains failures in the `CreateApplication` and `DeleteApplication` actions.

Type: String

[roleArn \(p. 765\)](#)

The ARN of the role that the web application assumes when it interacts with AWS IoT Core.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

[ssoClientId \(p. 765\)](#)

The Id of the single sign-on client that you use to authenticate and authorize users on the web application.

Type: String

[tags \(p. 765\)](#)

A set of key/value pairs that you can use to manage the web application resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ^([\p{L}\p{Z}]\p{N}_.:/=+\-@]*\$

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListApplications

Service: AWS IoT Fleet Hub

Gets a list of Fleet Hub for AWS IoT Device Management web applications for the current account.

Request Syntax

```
GET /applications?nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[nextToken \(p. 769\)](#)

A token used to get the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^[A-Za-z0-9+/=]+\$

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "applicationSummaries": [
    {
      "applicationCreationDate": number,
      "applicationDescription": "string",
      "applicationId": "string",
      "applicationLastUpdateDate": number,
      "applicationName": "string",
      "applicationState": "string",
      "applicationUrl": "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.

[applicationSummaries \(p. 769\)](#)

An array of objects that provide summaries of information about the web applications in the list.

Type: Array of [ApplicationSummary \(p. 1089\)](#) objects

[nextToken \(p. 769\)](#)

A token used to get the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^[A-Za-z0-9+/-]+\$

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: AWS IoT Fleet Hub

Lists the tags for the specified resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 771\)](#)

The ARN of the resource.

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 \(p. 771\)](#)

The list of tags assigned to the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ^([\\p{L}\\p{Z}\\p{N}_.:/=+\\-@]*)\$

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource 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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Service: AWS IoT Fleet Hub

Adds to or modifies the tags of the specified resource. Tags are metadata which can be used to manage a resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 773\)](#)

The ARN of the resource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[tags \(p. 773\)](#)

The new or modified tags for the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: ^([\\p{L}\\p{Z}]\\p{N}_.:/+=\\-@]*\$

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource 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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: AWS IoT Fleet Hub

Removes the specified tags (metadata) from the resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 775\)](#)

The ARN of the resource.

Required: Yes

[tagKeys \(p. 775\)](#)

A list of the keys of the tags to be removed from the resource.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: ^([\p{L}\p{Z}\p{N}_.:/:=+\-@\"]*)\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource 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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateApplication

Service: AWS IoT Fleet Hub

Updates information about a Fleet Hub for AWS IoT Device Management web application.

Request Syntax

```
PATCH /applications/applicationId HTTP/1.1
Content-type: application/json

{
    "applicationDescription": "string",
    "applicationName": "string",
    "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[applicationId \(p. 777\)](#)

The unique Id of the web application.

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$

Required: Yes

Request Body

The request accepts the following data in JSON format.

[applicationDescription \(p. 777\)](#)

An optional description of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^[-~]*\$

Required: No

[applicationName \(p. 777\)](#)

The name of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: ^[-~]*\$

Required: No

[clientToken \(p. 777\)](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

ConflictException

The request conflicts with the current state of the resource.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Secure Tunneling

The following actions are supported by AWS IoT Secure Tunneling:

- [CloseTunnel \(p. 780\)](#)
- [DescribeTunnel \(p. 782\)](#)
- [ListTagsForResource \(p. 784\)](#)
- [ListTunnels \(p. 786\)](#)
- [OpenTunnel \(p. 788\)](#)
- [RotateTunnelAccessToken \(p. 791\)](#)
- [TagResource \(p. 794\)](#)
- [UntagResource \(p. 796\)](#)

CloseTunnel

Service: AWS IoT Secure Tunneling

Closes a tunnel identified by the unique tunnel id. When a `CloseTunnel` request is received, we close the WebSocket connections between the client and proxy server so no data can be transmitted.

Requires permission to access the [CloseTunnel](#) action.

Request Syntax

```
{  
    "delete": boolean,  
    "tunnelId": string  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

delete (p. 780)

When set to true, AWS IoT Secure Tunneling deletes the tunnel data immediately.

Type: Boolean

Required: No

tunnelId (p. 780)

The ID of the tunnel to close.

Type: String

Pattern: [a-zA-Z0-9_\\-=:] {1,128}

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeTunnel

Service: AWS IoT Secure Tunneling

Gets information about a tunnel identified by the unique tunnel id.

Requires permission to access the [DescribeTunnel](#) action.

Request Syntax

```
{  
    "tunnelId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

tunnelId (p. 782)

The tunnel to describe.

Type: String

Pattern: [a-zA-Z0-9_\-=:] {1,128}

Required: Yes

Response Syntax

```
{  
    "tunnel": {  
        "createdAt": number,  
        "description": "string",  
        "destinationConfig": {  
            "services": [ "string" ],  
            "thingName": "string"  
        },  
        "destinationConnectionState": {  
            "lastUpdatedAt": number,  
            "status": "string"  
        },  
        "lastUpdatedAt": number,  
        "sourceConnectionState": {  
            "lastUpdatedAt": number,  
            "status": "string"  
        },  
        "status": "string",  
        "tags": [  
            {  
                "key": "string",  
                "value": "string"  
            }  
        ],  
        "timeoutConfig": {  
            "maxLifetimeTimeoutMinutes": number  
        }  
    }  
}
```

```
        },
        "tunnelArn": "string",
        "tunnelId": "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.

[tunnel \(p. 782\)](#)

The tunnel being described.

Type: [Tunnel \(p. 1095\)](#) object

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: AWS IoT Secure Tunneling

Lists the tags for the specified resource.

Request Syntax

```
{  
    "resourceArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

[resourceArn \(p. 784\)](#)

The resource ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Response Syntax

```
{  
    "tags": [  
        {  
            "key": "string",  
            "value": "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 \(p. 784\)](#)

The tags for the specified resource.

Type: Array of [Tag \(p. 1093\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTunnels

Service: AWS IoT Secure Tunneling

List all tunnels for an AWS account. Tunnels are listed by creation time in descending order, newer tunnels will be listed before older tunnels.

Requires permission to access the [ListTunnels](#) action.

Request Syntax

```
{  
    "maxResults": number,  
    "nextToken": "string",  
    "thingName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

[maxResults \(p. 786\)](#)

The maximum number of results to return at once.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken \(p. 786\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise null to receive the first set of results.

Type: String

Pattern: [a-zA-Z0-9_=]{1,4096}

Required: No

[thingName \(p. 786\)](#)

The name of the IoT thing associated with the destination device.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
{
```

```
"nextToken": "string",
"tunnelSummaries": [
  {
    "createdAt": number,
    "description": "string",
    "lastUpdatedAt": number,
    "status": "string",
    "tunnelArn": "string",
    "tunnelId": "string"
  }
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken \(p. 786\)](#)

The token to use to get the next set of results, or null if there are no additional results.

Type: String

Pattern: [a-zA-Z0-9_=]{1,4096}

[tunnelSummaries \(p. 786\)](#)

A short description of the tunnels in an AWS account.

Type: Array of [TunnelSummary \(p. 1097\)](#) objects

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

OpenTunnel

Service: AWS IoT Secure Tunneling

Creates a new tunnel, and returns two client access tokens for clients to use to connect to the AWS IoT Secure Tunneling proxy server.

Requires permission to access the [OpenTunnel](#) action.

Request Syntax

```
{  
    "description": "string",  
    "destinationConfig": {  
        "services": [ "string" ],  
        "thingName": "string"  
    },  
    "tags": [  
        {  
            "key": "string",  
            "value": "string"  
        }  
    ],  
    "timeoutConfig": {  
        "maxLifetimeTimeoutMinutes": number  
    }  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

[description \(p. 788\)](#)

A short text description of the tunnel.

Type: String

Pattern: [^\p{C}]{1,2048}

Required: No

[destinationConfig \(p. 788\)](#)

The destination configuration for the OpenTunnel request.

Type: [DestinationConfig \(p. 1092\)](#) object

Required: No

[tags \(p. 788\)](#)

A collection of tag metadata.

Type: Array of [Tag \(p. 1093\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: No

[timeoutConfig \(p. 788\)](#)

Timeout configuration for a tunnel.

Type: [TimeoutConfig \(p. 1094\)](#) object

Required: No

Response Syntax

```
{  
    "destinationAccessToken": "string",  
    "sourceAccessToken": "string",  
    "tunnelArn": "string",  
    "tunnelId": "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.

[destinationAccessToken \(p. 789\)](#)

The access token the destination local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

[sourceAccessToken \(p. 789\)](#)

The access token the source local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

[tunnelArn \(p. 789\)](#)

The Amazon Resource Name for the tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

[tunnelId \(p. 789\)](#)

A unique alpha-numeric tunnel ID.

Type: String

Pattern: [a-zA-Z0-9_\\-+=:] {1,128}

Errors

LimitExceededException

Thrown when a tunnel limit is exceeded.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RotateTunnelAccessToken

Service: AWS IoT Secure Tunneling

Revokes the current client access token (CAT) and returns new CAT for clients to use when reconnecting to secure tunneling to access the same tunnel.

Requires permission to access the [RotateTunnelAccessToken](#) action.

Note

Rotating the CAT doesn't extend the tunnel duration. For example, say the tunnel duration is 12 hours and the tunnel has already been open for 4 hours. When you rotate the access tokens, the new tokens that are generated can only be used for the remaining 8 hours.

Request Syntax

```
{  
    "clientMode": "string",  
    "destinationConfig": {  
        "services": [ "string" ],  
        "thingName": "string"  
    },  
    "tunnelId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

clientMode (p. 791)

The mode of the client that will use the client token, which can be either the source or destination, or both source and destination.

Type: String

Valid Values: SOURCE | DESTINATION | ALL

Required: Yes

destinationConfig (p. 791)

The destination configuration.

Type: [DestinationConfig \(p. 1092\)](#) object

Required: No

tunnelId (p. 791)

The tunnel for which you want to rotate the access tokens.

Type: String

Pattern: [a-zA-Z0-9_\-=:]{1,128}

Required: Yes

Response Syntax

```
{  
    "destinationAccessToken": "string",  
    "sourceAccessToken": "string",  
    "tunnelArn": "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.

[destinationAccessToken \(p. 792\)](#)

The client access token that the destination local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

[sourceAccessToken \(p. 792\)](#)

The client access token that the source local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

[tunnelArn \(p. 792\)](#)

The Amazon Resource Name for the tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

TagResource

Service: AWS IoT Secure Tunneling

A resource tag.

Request Syntax

```
{  
    "resourceArn": "string",  
    "tags": [  
        {  
            "key": "string",  
            "value": "string"  
        }  
    ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

[resourceArn \(p. 794\)](#)

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

[tags \(p. 794\)](#)

The tags for the resource.

Type: Array of [Tag \(p. 1093\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

[ResourceNotFoundException](#)

Thrown when an operation is attempted on a resource that does not exist.

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](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: AWS IoT Secure Tunneling

Removes a tag from a resource.

Request Syntax

```
{  
    "resourceArn": "string",  
    "tagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 1099\)](#).

The request accepts the following data in JSON format.

[resourceArn \(p. 796\)](#)

The resource ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

[tagKeys \(p. 796\)](#)

The keys of the tags to remove.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: ^([\\p{L}\\p{Z}\\p{N}_.:/=+\\-@]*)\$

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The following data types are supported by AWS IoT:

- [AbortConfig \(p. 808\)](#)
- [AbortCriteria \(p. 809\)](#)
- [Action \(p. 811\)](#)
- [ActiveViolation \(p. 815\)](#)
- [AddThingsToThingGroupParams \(p. 817\)](#)
- [AggregationType \(p. 818\)](#)
- [AlertTarget \(p. 819\)](#)
- [Allowed \(p. 820\)](#)
- [AssetPropertyTimestamp \(p. 821\)](#)
- [AssetPropertyValue \(p. 822\)](#)
- [AssetPropertyVariant \(p. 823\)](#)
- [AttributePayload \(p. 824\)](#)
- [AuditCheckConfiguration \(p. 825\)](#)
- [AuditCheckDetails \(p. 826\)](#)
- [AuditFinding \(p. 828\)](#)
- [AuditMitigationActionExecutionMetadata \(p. 830\)](#)
- [AuditMitigationActionsTaskMetadata \(p. 832\)](#)
- [AuditMitigationActionsTaskTarget \(p. 833\)](#)
- [AuditNotificationTarget \(p. 834\)](#)
- [AuditSuppression \(p. 835\)](#)
- [AuditTaskMetadata \(p. 837\)](#)
- [AuthInfo \(p. 838\)](#)
- [AuthorizerConfig \(p. 839\)](#)
- [AuthorizerDescription \(p. 840\)](#)
- [AuthorizerSummary \(p. 842\)](#)
- [AuthResult \(p. 843\)](#)
- [AwsJobAbortConfig \(p. 844\)](#)
- [AwsJobAbortCriteria \(p. 845\)](#)
- [AwsJobExecutionsRolloutConfig \(p. 847\)](#)
- [AwsJobExponentialRolloutRate \(p. 848\)](#)
- [AwsJobPresignedUrlConfig \(p. 849\)](#)
- [AwsJobRateIncreaseCriteria \(p. 850\)](#)
- [AwsJobTimeoutConfig \(p. 851\)](#)
- [Behavior \(p. 852\)](#)
- [BehaviorCriteria \(p. 854\)](#)
- [BehaviorModelTrainingSummary \(p. 856\)](#)
- [BillingGroupMetadata \(p. 858\)](#)
- [BillingGroupProperties \(p. 859\)](#)
- [Bucket \(p. 860\)](#)

- [BucketsAggregationType \(p. 861\)](#)
- [CACertificate \(p. 862\)](#)
- [CACertificateDescription \(p. 863\)](#)
- [Certificate \(p. 866\)](#)
- [CertificateDescription \(p. 868\)](#)
- [CertificateValidity \(p. 871\)](#)
- [CloudwatchAlarmAction \(p. 872\)](#)
- [CloudwatchLogsAction \(p. 873\)](#)
- [CloudwatchMetricAction \(p. 874\)](#)
- [CodeSigning \(p. 876\)](#)
- [CodeSigningCertificateChain \(p. 877\)](#)
- [CodeSigningSignature \(p. 878\)](#)
- [Configuration \(p. 879\)](#)
- [CustomCodeSigning \(p. 880\)](#)
- [Denied \(p. 881\)](#)
- [Destination \(p. 882\)](#)
- [DetectMitigationActionExecution \(p. 883\)](#)
- [DetectMitigationActionsTaskStatistics \(p. 885\)](#)
- [DetectMitigationActionsTaskSummary \(p. 886\)](#)
- [DetectMitigationActionsTaskTarget \(p. 888\)](#)
- [DocumentParameter \(p. 889\)](#)
- [DomainConfigurationSummary \(p. 891\)](#)
- [DynamoDBAction \(p. 892\)](#)
- [DynamoDBv2Action \(p. 894\)](#)
- [EffectivePolicy \(p. 895\)](#)
- [ElasticsearchAction \(p. 896\)](#)
- [EnableIoTLoggingParams \(p. 898\)](#)
- [ErrorInfo \(p. 899\)](#)
- [ExplicitDeny \(p. 900\)](#)
- [ExponentialRolloutRate \(p. 901\)](#)
- [Field \(p. 902\)](#)
- [FileLocation \(p. 903\)](#)
- [FirehoseAction \(p. 904\)](#)
- [FleetMetricNameAndArn \(p. 905\)](#)
- [GroupNameAndArn \(p. 906\)](#)
- [HttpAction \(p. 907\)](#)
- [HttpActionHeader \(p. 909\)](#)
- [HttpAuthorization \(p. 910\)](#)
- [HttpContext \(p. 911\)](#)
- [HttpUrlDestinationConfiguration \(p. 912\)](#)
- [HttpUrlDestinationProperties \(p. 913\)](#)
- [HttpUrlDestinationSummary \(p. 914\)](#)
- [ImplicitDeny \(p. 915\)](#)
- [IndexingFilter \(p. 916\)](#)
- [IoAnalyticsAction \(p. 917\)](#)
- [IoEventsAction \(p. 918\)](#)

- [IoTSiteWiseAction \(p. 920\)](#)
- [IssuerCertificateIdentifier \(p. 921\)](#)
- [Job \(p. 922\)](#)
- [JobExecution \(p. 926\)](#)
- [JobExecutionsRetryConfig \(p. 928\)](#)
- [JobExecutionsRolloutConfig \(p. 929\)](#)
- [JobExecutionStatusDetails \(p. 930\)](#)
- [JobExecutionSummary \(p. 931\)](#)
- [JobExecutionSummaryForJob \(p. 933\)](#)
- [JobExecutionSummaryForThing \(p. 934\)](#)
- [JobProcessDetails \(p. 935\)](#)
- [JobSummary \(p. 937\)](#)
- [JobTemplateSummary \(p. 939\)](#)
- [KafkaAction \(p. 941\)](#)
- [KeyPair \(p. 942\)](#)
- [KinesisAction \(p. 943\)](#)
- [LambdaAction \(p. 944\)](#)
- [LocationAction \(p. 945\)](#)
- [LocationTimestamp \(p. 947\)](#)
- [LoggingOptionsPayload \(p. 948\)](#)
- [LogTarget \(p. 949\)](#)
- [LogTargetConfiguration \(p. 950\)](#)
- [MachineLearningDetectionConfig \(p. 951\)](#)
- [ManagedJobTemplateSummary \(p. 952\)](#)
- [MetricDatum \(p. 954\)](#)
- [MetricDimension \(p. 955\)](#)
- [MetricToRetain \(p. 956\)](#)
- [MetricValue \(p. 957\)](#)
- [MitigationAction \(p. 959\)](#)
- [MitigationActionIdentifier \(p. 960\)](#)
- [MitigationActionParams \(p. 961\)](#)
- [MqttContext \(p. 963\)](#)
- [NonCompliantResource \(p. 964\)](#)
- [OpenSearchAction \(p. 965\)](#)
- [OTAUpdateFile \(p. 966\)](#)
- [OTAUpdateInfo \(p. 968\)](#)
- [OTAUpdateSummary \(p. 971\)](#)
- [OutgoingCertificate \(p. 972\)](#)
- [PercentPair \(p. 974\)](#)
- [Policy \(p. 975\)](#)
- [PolicyVersion \(p. 976\)](#)
- [PolicyVersionIdentifier \(p. 977\)](#)
- [PresignedUrlConfig \(p. 978\)](#)
- [ProvisioningHook \(p. 979\)](#)
- [ProvisioningTemplateSummary \(p. 980\)](#)
- [ProvisioningTemplateVersionSummary \(p. 982\)](#)

- [PublishFindingToSnsParams \(p. 983\)](#)
- [PutAssetPropertyValueEntry \(p. 984\)](#)
- [PutItemInput \(p. 986\)](#)
- [RateIncreaseCriteria \(p. 987\)](#)
- [RegistrationConfig \(p. 988\)](#)
- [RelatedResource \(p. 989\)](#)
- [ReplaceDefaultPolicyVersionParams \(p. 990\)](#)
- [RepublishAction \(p. 991\)](#)
- [ResourceIdentifier \(p. 992\)](#)
- [RetryCriteria \(p. 994\)](#)
- [RoleAliasDescription \(p. 995\)](#)
- [S3Action \(p. 997\)](#)
- [S3Destination \(p. 998\)](#)
- [S3Location \(p. 999\)](#)
- [SalesforceAction \(p. 1000\)](#)
- [ScheduledAuditMetadata \(p. 1001\)](#)
- [SecurityProfileIdentifier \(p. 1003\)](#)
- [SecurityProfileTarget \(p. 1004\)](#)
- [SecurityProfileTargetMapping \(p. 1005\)](#)
- [ServerCertificateSummary \(p. 1006\)](#)
- [SigningProfileParameter \(p. 1007\)](#)
- [SigV4Authorization \(p. 1008\)](#)
- [SnsAction \(p. 1009\)](#)
- [SqsAction \(p. 1010\)](#)
- [StartSigningJobParameter \(p. 1011\)](#)
- [StatisticalThreshold \(p. 1012\)](#)
- [Statistics \(p. 1013\)](#)
- [StepFunctionsAction \(p. 1015\)](#)
- [Stream \(p. 1016\)](#)
- [StreamFile \(p. 1017\)](#)
- [StreamInfo \(p. 1018\)](#)
- [StreamSummary \(p. 1020\)](#)
- [Tag \(p. 1021\)](#)
- [TaskStatistics \(p. 1022\)](#)
- [TaskStatisticsForAuditCheck \(p. 1024\)](#)
- [TermsAggregation \(p. 1025\)](#)
- [ThingAttribute \(p. 1026\)](#)
- [ThingConnectivity \(p. 1028\)](#)
- [ThingDocument \(p. 1029\)](#)
- [ThingGroupDocument \(p. 1031\)](#)
- [ThingGroupIndexingConfiguration \(p. 1033\)](#)
- [ThingGroupMetadata \(p. 1034\)](#)
- [ThingGroupProperties \(p. 1035\)](#)
- [ThingIndexingConfiguration \(p. 1036\)](#)
- [ThingTypeDefinition \(p. 1038\)](#)
- [ThingTypeMetadata \(p. 1039\)](#)

- [ThingTypeProperties \(p. 1040\)](#)
- [TimeoutConfig \(p. 1041\)](#)
- [TimestreamAction \(p. 1042\)](#)
- [TimestreamDimension \(p. 1044\)](#)
- [TimestreamTimestamp \(p. 1045\)](#)
- [TlsContext \(p. 1046\)](#)
- [TopicRule \(p. 1047\)](#)
- [TopicRuleDestination \(p. 1049\)](#)
- [TopicRuleDestinationConfiguration \(p. 1051\)](#)
- [TopicRuleDestinationSummary \(p. 1052\)](#)
- [TopicRuleListItem \(p. 1054\)](#)
- [TopicRulePayload \(p. 1055\)](#)
- [TransferData \(p. 1057\)](#)
- [UpdateCACertificateParams \(p. 1059\)](#)
- [UpdateDeviceCertificateParams \(p. 1060\)](#)
- [ValidationError \(p. 1061\)](#)
- [ViolationEvent \(p. 1062\)](#)
- [ViolationEventAdditionalInfo \(p. 1064\)](#)
- [ViolationEventOccurrenceRange \(p. 1065\)](#)
- [VpcDestinationConfiguration \(p. 1066\)](#)
- [VpcDestinationProperties \(p. 1067\)](#)
- [VpcDestinationSummary \(p. 1068\)](#)

The following data types are supported by AWS IoT data:

- [RetainedMessageSummary \(p. 1069\)](#)

The following data types are supported by AWS IoT jobs data:

- [JobExecution \(p. 1071\)](#)
- [JobExecutionState \(p. 1074\)](#)
- [JobExecutionSummary \(p. 1075\)](#)

The following data types are supported by AWS IoT Core Device Advisor:

- [DeviceUnderTest \(p. 1077\)](#)
- [GroupResult \(p. 1078\)](#)
- [SuiteDefinitionConfiguration \(p. 1079\)](#)
- [SuiteDefinitionInformation \(p. 1081\)](#)
- [SuiteRunConfiguration \(p. 1083\)](#)
- [SuiteRunInformation \(p. 1084\)](#)
- [TestCaseRun \(p. 1086\)](#)
- [TestResult \(p. 1088\)](#)

The following data types are supported by AWS IoT Fleet Hub:

- [ApplicationSummary \(p. 1089\)](#)

The following data types are supported by AWS IoT Secure Tunneling:

- [ConnectionState \(p. 1091\)](#)
- [DestinationConfig \(p. 1092\)](#)
- [Tag \(p. 1093\)](#)
- [TimeoutConfig \(p. 1094\)](#)
- [Tunnel \(p. 1095\)](#)
- [TunnelSummary \(p. 1097\)](#)

AWS IoT

The following data types are supported by AWS IoT:

- [AbortConfig \(p. 808\)](#)
- [AbortCriteria \(p. 809\)](#)
- [Action \(p. 811\)](#)
- [ActiveViolation \(p. 815\)](#)
- [AddThingsToThingGroupParams \(p. 817\)](#)
- [AggregationType \(p. 818\)](#)
- [AlertTarget \(p. 819\)](#)
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- [AssetPropertyTimestamp \(p. 821\)](#)
- [AssetPropertyValue \(p. 822\)](#)
- [AssetPropertyVariant \(p. 823\)](#)
- [AttributePayload \(p. 824\)](#)
- [AuditCheckConfiguration \(p. 825\)](#)
- [AuditCheckDetails \(p. 826\)](#)
- [AuditFinding \(p. 828\)](#)
- [AuditMitigationActionExecutionMetadata \(p. 830\)](#)
- [AuditMitigationActionsTaskMetadata \(p. 832\)](#)
- [AuditMitigationActionsTaskTarget \(p. 833\)](#)
- [AuditNotificationTarget \(p. 834\)](#)
- [AuditSuppression \(p. 835\)](#)
- [AuditTaskMetadata \(p. 837\)](#)
- [AuthInfo \(p. 838\)](#)
- [AuthorizerConfig \(p. 839\)](#)
- [AuthorizerDescription \(p. 840\)](#)
- [AuthorizerSummary \(p. 842\)](#)
- [AuthResult \(p. 843\)](#)
- [AwsJobAbortConfig \(p. 844\)](#)
- [AwsJobAbortCriteria \(p. 845\)](#)
- [AwsJobExecutionsRolloutConfig \(p. 847\)](#)
- [AwsJobExponentialRolloutRate \(p. 848\)](#)
- [AwsJobPresignedUrlConfig \(p. 849\)](#)
- [AwsJobRateIncreaseCriteria \(p. 850\)](#)
- [AwsJobTimeoutConfig \(p. 851\)](#)

- [Behavior \(p. 852\)](#)
- [BehaviorCriteria \(p. 854\)](#)
- [BehaviorModelTrainingSummary \(p. 856\)](#)
- [BillingGroupMetadata \(p. 858\)](#)
- [BillingGroupProperties \(p. 859\)](#)
- [Bucket \(p. 860\)](#)
- [BucketsAggregationType \(p. 861\)](#)
- [CACertificate \(p. 862\)](#)
- [CACertificateDescription \(p. 863\)](#)
- [Certificate \(p. 866\)](#)
- [CertificateDescription \(p. 868\)](#)
- [CertificateValidity \(p. 871\)](#)
- [CloudwatchAlarmAction \(p. 872\)](#)
- [CloudwatchLogsAction \(p. 873\)](#)
- [CloudwatchMetricAction \(p. 874\)](#)
- [CodeSigning \(p. 876\)](#)
- [CodeSigningCertificateChain \(p. 877\)](#)
- [CodeSigningSignature \(p. 878\)](#)
- [Configuration \(p. 879\)](#)
- [CustomCodeSigning \(p. 880\)](#)
- [Denied \(p. 881\)](#)
- [Destination \(p. 882\)](#)
- [DetectMitigationActionExecution \(p. 883\)](#)
- [DetectMitigationActionsTaskStatistics \(p. 885\)](#)
- [DetectMitigationActionsTaskSummary \(p. 886\)](#)
- [DetectMitigationActionsTaskTarget \(p. 888\)](#)
- [DocumentParameter \(p. 889\)](#)
- [DomainConfigurationSummary \(p. 891\)](#)
- [DynamoDBAction \(p. 892\)](#)
- [DynamoDBv2Action \(p. 894\)](#)
- [EffectivePolicy \(p. 895\)](#)
- [ElasticsearchAction \(p. 896\)](#)
- [EnableIoTLoggingParams \(p. 898\)](#)
- [ErrorInfo \(p. 899\)](#)
- [ExplicitDeny \(p. 900\)](#)
- [ExponentialRolloutRate \(p. 901\)](#)
- [Field \(p. 902\)](#)
- [FileLocation \(p. 903\)](#)
- [FirehoseAction \(p. 904\)](#)
- [FleetMetricNameAndArn \(p. 905\)](#)
- [GroupNameAndArn \(p. 906\)](#)
- [HttpAction \(p. 907\)](#)
- [HttpActionHeader \(p. 909\)](#)
- [HttpAuthorization \(p. 910\)](#)
- [HttpContext \(p. 911\)](#)
- [HttpUrlDestinationConfiguration \(p. 912\)](#)

- [HttpUrlDestinationProperties \(p. 913\)](#)
- [HttpUrlDestinationSummary \(p. 914\)](#)
- [ImplicitDeny \(p. 915\)](#)
- [IndexingFilter \(p. 916\)](#)
- [iotAnalyticsAction \(p. 917\)](#)
- [iotEventsAction \(p. 918\)](#)
- [iotSiteWiseAction \(p. 920\)](#)
- [IssuerCertificateIdentifier \(p. 921\)](#)
- [Job \(p. 922\)](#)
- [JobExecution \(p. 926\)](#)
- [JobExecutionsRetryConfig \(p. 928\)](#)
- [JobExecutionsRolloutConfig \(p. 929\)](#)
- [JobExecutionStatusDetails \(p. 930\)](#)
- [JobExecutionSummary \(p. 931\)](#)
- [JobExecutionSummaryForJob \(p. 933\)](#)
- [JobExecutionSummaryForThing \(p. 934\)](#)
- [JobProcessDetails \(p. 935\)](#)
- [JobSummary \(p. 937\)](#)
- [JobTemplateSummary \(p. 939\)](#)
- [KafkaAction \(p. 941\)](#)
- [KeyValuePair \(p. 942\)](#)
- [KinesisAction \(p. 943\)](#)
- [LambdaAction \(p. 944\)](#)
- [LocationAction \(p. 945\)](#)
- [LocationTimestamp \(p. 947\)](#)
- [LoggingOptionsPayload \(p. 948\)](#)
- [LogTarget \(p. 949\)](#)
- [LogTargetConfiguration \(p. 950\)](#)
- [MachineLearningDetectionConfig \(p. 951\)](#)
- [ManagedJobTemplateSummary \(p. 952\)](#)
- [MetricDatum \(p. 954\)](#)
- [MetricDimension \(p. 955\)](#)
- [MetricToRetain \(p. 956\)](#)
- [MetricValue \(p. 957\)](#)
- [MitigationAction \(p. 959\)](#)
- [MitigationActionIdentifier \(p. 960\)](#)
- [MitigationActionParams \(p. 961\)](#)
- [MqttContext \(p. 963\)](#)
- [NonCompliantResource \(p. 964\)](#)
- [OpenSearchAction \(p. 965\)](#)
- [OTAUpdateFile \(p. 966\)](#)
- [OTAUpdateInfo \(p. 968\)](#)
- [OTAUpdateSummary \(p. 971\)](#)
- [OutgoingCertificate \(p. 972\)](#)
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- [Policy \(p. 975\)](#)

- [PolicyVersion \(p. 976\)](#)
- [PolicyVersionIdentifier \(p. 977\)](#)
- [PresignedUrlConfig \(p. 978\)](#)
- [ProvisioningHook \(p. 979\)](#)
- [ProvisioningTemplateSummary \(p. 980\)](#)
- [ProvisioningTemplateVersionSummary \(p. 982\)](#)
- [PublishFindingToSnsParams \(p. 983\)](#)
- [PutAssetPropertyValueEntry \(p. 984\)](#)
- [PutItemInput \(p. 986\)](#)
- [RateIncreaseCriteria \(p. 987\)](#)
- [RegistrationConfig \(p. 988\)](#)
- [RelatedResource \(p. 989\)](#)
- [ReplaceDefaultPolicyVersionParams \(p. 990\)](#)
- [RepublishAction \(p. 991\)](#)
- [ResourceIdentifier \(p. 992\)](#)
- [RetryCriteria \(p. 994\)](#)
- [RoleAliasDescription \(p. 995\)](#)
- [S3Action \(p. 997\)](#)
- [S3Destination \(p. 998\)](#)
- [S3Location \(p. 999\)](#)
- [SalesforceAction \(p. 1000\)](#)
- [ScheduledAuditMetadata \(p. 1001\)](#)
- [SecurityProfileIdentifier \(p. 1003\)](#)
- [SecurityProfileTarget \(p. 1004\)](#)
- [SecurityProfileTargetMapping \(p. 1005\)](#)
- [ServerCertificateSummary \(p. 1006\)](#)
- [SigningProfileParameter \(p. 1007\)](#)
- [SigV4Authorization \(p. 1008\)](#)
- [SnsAction \(p. 1009\)](#)
- [SqsAction \(p. 1010\)](#)
- [StartSigningJobParameter \(p. 1011\)](#)
- [StatisticalThreshold \(p. 1012\)](#)
- [Statistics \(p. 1013\)](#)
- [StepFunctionsAction \(p. 1015\)](#)
- [Stream \(p. 1016\)](#)
- [StreamFile \(p. 1017\)](#)
- [StreamInfo \(p. 1018\)](#)
- [StreamSummary \(p. 1020\)](#)
- [Tag \(p. 1021\)](#)
- [TaskStatistics \(p. 1022\)](#)
- [TaskStatisticsForAuditCheck \(p. 1024\)](#)
- [TermsAggregation \(p. 1025\)](#)
- [ThingAttribute \(p. 1026\)](#)
- [ThingConnectivity \(p. 1028\)](#)
- [ThingDocument \(p. 1029\)](#)
- [ThingGroupDocument \(p. 1031\)](#)

- [ThingGroupIndexingConfiguration \(p. 1033\)](#)
- [ThingGroupMetadata \(p. 1034\)](#)
- [ThingGroupProperties \(p. 1035\)](#)
- [ThingIndexingConfiguration \(p. 1036\)](#)
- [ThingTypeDefinition \(p. 1038\)](#)
- [ThingTypeMetadata \(p. 1039\)](#)
- [ThingTypeProperties \(p. 1040\)](#)
- [TimeoutConfig \(p. 1041\)](#)
- [TimestreamAction \(p. 1042\)](#)
- [TimestreamDimension \(p. 1044\)](#)
- [TimestreamTimestamp \(p. 1045\)](#)
- [TlsContext \(p. 1046\)](#)
- [TopicRule \(p. 1047\)](#)
- [TopicRuleDestination \(p. 1049\)](#)
- [TopicRuleDestinationConfiguration \(p. 1051\)](#)
- [TopicRuleDestinationSummary \(p. 1052\)](#)
- [TopicRuleListItem \(p. 1054\)](#)
- [TopicRulePayload \(p. 1055\)](#)
- [TransferData \(p. 1057\)](#)
- [UpdateCACertificateParams \(p. 1059\)](#)
- [UpdateDeviceCertificateParams \(p. 1060\)](#)
- [ValidationError \(p. 1061\)](#)
- [ViolationEvent \(p. 1062\)](#)
- [ViolationEventAdditionalInfo \(p. 1064\)](#)
- [ViolationEventOccurrenceRange \(p. 1065\)](#)
- [VpcDestinationConfiguration \(p. 1066\)](#)
- [VpcDestinationProperties \(p. 1067\)](#)
- [VpcDestinationSummary \(p. 1068\)](#)

AbortConfig

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

criteriaList

The list of criteria that determine when and how to abort the job.

Type: Array of [AbortCriteria \(p. 809\)](#) objects

Array Members: Minimum number of 1 item.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AbortCriteria

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

action

The type of job action to take to initiate the job abort.

Type: String

Valid Values: CANCEL

Required: Yes

failureType

The type of job execution failures that can initiate a job abort.

Type: String

Valid Values: FAILED | REJECTED | TIMED_OUT | ALL

Required: Yes

minNumberOfExecutedThings

The minimum number of things which must receive job execution notifications before the job can be aborted.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

thresholdPercentage

The minimum percentage of job execution failures that must occur to initiate the job abort.

AWS IoT Core supports up to two digits after the decimal (for example, 10.9 and 10.99, but not 10.999).

Type: Double

Valid Range: Maximum value of 100.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Action

Service: AWS IoT

Describes the actions associated with a rule.

Contents

cloudwatchAlarm

Change the state of a CloudWatch alarm.

Type: [CloudwatchAlarmAction \(p. 872\)](#) object

Required: No

cloudwatchLogs

Send data to CloudWatch Logs.

Type: [CloudwatchLogsAction \(p. 873\)](#) object

Required: No

cloudwatchMetric

Capture a CloudWatch metric.

Type: [CloudwatchMetricAction \(p. 874\)](#) object

Required: No

dynamoDB

Write to a DynamoDB table.

Type: [DynamoDBAction \(p. 892\)](#) object

Required: No

dynamoDBv2

Write to a DynamoDB table. This is a new version of the DynamoDB action. It allows you to write each attribute in an MQTT message payload into a separate DynamoDB column.

Type: [DynamoDBv2Action \(p. 894\)](#) object

Required: No

elasticsearch

Write data to an Amazon OpenSearch Service domain.

Note

The Elasticsearch action can only be used by existing rule actions. To create a new rule action or to update an existing rule action, use the OpenSearch rule action instead. For more information, see [OpenSearchAction](#).

Type: [ElasticsearchAction \(p. 896\)](#) object

Required: No

firehose

Write to an Amazon Kinesis Firehose stream.

Type: [FirehoseAction \(p. 904\)](#) object

Required: No

http

Send data to an HTTPS endpoint.

Type: [HttpAction \(p. 907\)](#) object

Required: No

iotAnalytics

Sends message data to an AWS IoT Analytics channel.

Type: [IotAnalyticsAction \(p. 917\)](#) object

Required: No

iotEvents

Sends an input to an AWS IoT Events detector.

Type: [IotEventsAction \(p. 918\)](#) object

Required: No

iotSiteWise

Sends data from the MQTT message that triggered the rule to AWS IoT SiteWise asset properties.

Type: [IotSiteWiseAction \(p. 920\)](#) object

Required: No

kafka

Send messages to an Amazon Managed Streaming for Apache Kafka (Amazon MSK) or self-managed Apache Kafka cluster.

Type: [KafkaAction \(p. 941\)](#) object

Required: No

kinesis

Write data to an Amazon Kinesis stream.

Type: [KinesisAction \(p. 943\)](#) object

Required: No

lambda

Invoke a Lambda function.

Type: [LambdaAction \(p. 944\)](#) object

Required: No

location

The Amazon Location Service rule action sends device location updates from an MQTT message to an Amazon Location tracker resource.

Type: [LocationAction \(p. 945\)](#) object

Required: No

openSearch

Write data to an Amazon OpenSearch Service domain.

Type: [OpenSearchAction \(p. 965\)](#) object

Required: No

republish

Publish to another MQTT topic.

Type: [RepublishAction \(p. 991\)](#) object

Required: No

s3

Write to an Amazon S3 bucket.

Type: [S3Action \(p. 997\)](#) object

Required: No

salesforce

Send a message to a Salesforce IoT Cloud Input Stream.

Type: [SalesforceAction \(p. 1000\)](#) object

Required: No

sns

Publish to an Amazon SNS topic.

Type: [SnsAction \(p. 1009\)](#) object

Required: No

sqs

Publish to an Amazon SQS queue.

Type: [SqsAction \(p. 1010\)](#) object

Required: No

stepFunctions

Starts execution of a Step Functions state machine.

Type: [StepFunctionsAction \(p. 1015\)](#) object

Required: No

timestream

The Timestream rule action writes attributes (measures) from an MQTT message into an Amazon Timestream table. For more information, see the [Timestream](#) topic rule action documentation.

Type: [TimestreamAction \(p. 1042\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ActiveViolation

Service: AWS IoT

Information about an active Device Defender security profile behavior violation.

Contents

behavior

The behavior that is being violated.

Type: [Behavior \(p. 852\)](#) object

Required: No

lastViolationTime

The time the most recent violation occurred.

Type: Timestamp

Required: No

lastViolationValue

The value of the metric (the measurement) that caused the most recent violation.

Type: [MetricValue \(p. 957\)](#) object

Required: No

securityProfileName

The security profile with the behavior is in violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingName

The name of the thing responsible for the active violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

verificationState

The verification state of the violation (detect alarm).

Type: String

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Required: No

verificationStateDescription

The description of the verification state of the violation.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [^\p{Cntrl}]*

Required: No

violationEventAdditionalInfo

The details of a violation event.

Type: [ViolationEventAdditionalInfo \(p. 1064\)](#) object

Required: No

violationId

The ID of the active violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+

Required: No

violationStartTime

The time the violation started.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AddThingsToThingGroupParams

Service: AWS IoT

Parameters used when defining a mitigation action that move a set of things to a thing group.

Contents

overrideDynamicGroups

Specifies if this mitigation action can move the things that triggered the mitigation action even if they are part of one or more dynamic thing groups.

Type: Boolean

Required: No

thingGroupNames

The list of groups to which you want to add the things that triggered the mitigation action. You can add a thing to a maximum of 10 groups, but you can't add a thing to more than one group in the same hierarchy.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AggregationType

Service: AWS IoT

The type of aggregation queries.

Contents

name

The name of the aggregation type.

Type: String

Valid Values: Statistics | Percentiles | Cardinality

Required: Yes

values

A list of the values of aggregation types.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: [a-zA-Z0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AlertTarget

Service: AWS IoT

A structure containing the alert target ARN and the role ARN.

Contents

alertTargetArn

The Amazon Resource Name (ARN) of the notification target to which alerts are sent.

Type: String

Required: Yes

roleArn

The ARN of the role that grants permission to send alerts to the notification target.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Allowed

Service: AWS IoT

Contains information that allowed the authorization.

Contents

policies

A list of policies that allowed the authentication.

Type: Array of [Policy \(p. 975\)](#) objects

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssetPropertyTimestamp

Service: AWS IoT

An asset property timestamp entry containing the following information.

Contents

offsetInNanos

Optional. A string that contains the nanosecond time offset. Accepts substitution templates.

Type: String

Required: No

timeInSeconds

A string that contains the time in seconds since epoch. Accepts substitution templates.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssetPropertyValue

Service: AWS IoT

An asset property value entry containing the following information.

Contents

quality

Optional. A string that describes the quality of the value. Accepts substitution templates. Must be GOOD, BAD, or UNCERTAIN.

Type: String

Required: No

timestamp

The asset property value timestamp.

Type: [AssetPropertyTimestamp \(p. 821\)](#) object

Required: Yes

value

The value of the asset property.

Type: [AssetPropertyVariant \(p. 823\)](#) object

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssetPropertyVariant

Service: AWS IoT

Contains an asset property value (of a single type).

Contents

booleanValue

Optional. A string that contains the boolean value (true or false) of the value entry. Accepts substitution templates.

Type: String

Required: No

doubleValue

Optional. A string that contains the double value of the value entry. Accepts substitution templates.

Type: String

Required: No

integerValue

Optional. A string that contains the integer value of the value entry. Accepts substitution templates.

Type: String

Required: No

stringValue

Optional. The string value of the value entry. Accepts substitution templates.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AttributePayload

Service: AWS IoT

The attribute payload.

Contents

attributes

A JSON string containing up to three key-value pair in JSON format. For example:

```
{\"attributes\":{\"string1\":\"string2\"}}
```

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.@/:#-]*

Required: No

merge

Specifies whether the list of attributes provided in the AttributePayload is merged with the attributes stored in the registry, instead of overwriting them.

To remove an attribute, call UpdateThing with an empty attribute value.

Note

The merge attribute is only valid when calling UpdateThing or UpdateThingGroup.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditCheckConfiguration

Service: AWS IoT

Which audit checks are enabled and disabled for this account.

Contents

enabled

True if this audit check is enabled for this account.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditCheckDetails

Service: AWS IoT

Information about the audit check.

Contents

checkCompliant

True if the check is complete and found all resources compliant.

Type: Boolean

Required: No

checkRunStatus

The completion status of this check. One of "IN_PROGRESS", "WAITING_FOR_DATA_COLLECTION", "CANCELED", "COMPLETED_COMPLIANT", "COMPLETED_NON_COMPLIANT", or "FAILED".

Type: String

Valid Values: IN_PROGRESS | WAITING_FOR_DATA_COLLECTION | CANCELED | COMPLETED_COMPLIANT | COMPLETED_NON_COMPLIANT | FAILED

Required: No

errorCode

The code of any error encountered when this check is performed during this audit. One of "INSUFFICIENT_PERMISSIONS" or "AUDIT_CHECK_DISABLED".

Type: String

Required: No

message

The message associated with any error encountered when this check is performed during this audit.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

nonCompliantResourcesCount

The number of resources that were found noncompliant during the check.

Type: Long

Required: No

suppressedNonCompliantResourcesCount

Describes how many of the non-compliant resources created during the evaluation of an audit check were marked as suppressed.

Type: Long

Required: No

totalResourcesCount

The number of resources on which the check was performed.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditFinding

Service: AWS IoT

The findings (results) of the audit.

Contents

checkName

The audit check that generated this result.

Type: String

Required: No

findingId

A unique identifier for this set of audit findings. This identifier is used to apply mitigation tasks to one or more sets of findings.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

findingTime

The time the result (finding) was discovered.

Type: Timestamp

Required: No

isSuppressed

Indicates whether the audit finding was suppressed or not during reporting.

Type: Boolean

Required: No

nonCompliantResource

The resource that was found to be noncompliant with the audit check.

Type: [NonCompliantResource \(p. 964\)](#) object

Required: No

reasonForNonCompliance

The reason the resource was noncompliant.

Type: String

Required: No

reasonForNonComplianceCode

A code that indicates the reason that the resource was noncompliant.

Type: String

Required: No

relatedResources

The list of related resources.

Type: Array of [RelatedResource \(p. 989\)](#) objects

Required: No

severity

The severity of the result (finding).

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW

Required: No

taskId

The ID of the audit that generated this result (finding).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-_]+\b

Required: No

taskStartTime

The time the audit started.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditMitigationActionExecutionMetadata

Service: AWS IoT

Returned by `ListAuditMitigationActionsTask`, this object contains information that describes a mitigation action that has been started.

Contents

actionId

The unique identifier for the mitigation action being applied by the task.

Type: String

Required: No

actionName

The friendly name of the mitigation action being applied by the task.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

endTime

The date and time when the task was completed or canceled. Blank if the task is still running.

Type: Timestamp

Required: No

errorCode

If an error occurred, the code that indicates which type of error occurred.

Type: String

Required: No

findingId

The unique identifier for the findings to which the task and associated mitigation action are applied.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

message

If an error occurred, a message that describes the error.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

startTime

The date and time when the task was started.

Type: Timestamp

Required: No

status

The current status of the task being executed.

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED | SKIPPED | PENDING

Required: No

taskId

The unique identifier for the task that applies the mitigation action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditMitigationActionsTaskMetadata

Service: AWS IoT

Information about an audit mitigation actions task that is returned by [ListAuditMitigationActionsTasks](#).

Contents

startTime

The time at which the audit mitigation actions task was started.

Type: Timestamp

Required: No

taskId

The unique identifier for the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

taskStatus

The current state of the audit mitigation actions task.

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditMitigationActionsTaskTarget

Service: AWS IoT

Used in `MitigationActionParams`, this information identifies the target findings to which the mitigation actions are applied. Only one entry appears.

Contents

auditCheckToReasonCodeFilter

Specifies a filter in the form of an audit check and set of reason codes that identify the findings from the audit to which the audit mitigation actions task apply.

Type: String to array of strings map

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: No

auditTaskId

If the task will apply a mitigation action to findings from a specific audit, this value uniquely identifies the audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-_]+\-

Required: No

findingIds

If the task will apply a mitigation action to one or more listed findings, this value uniquely identifies those findings.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+\-

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditNotificationTarget

Service: AWS IoT

Information about the targets to which audit notifications are sent.

Contents

enabled

True if notifications to the target are enabled.

Type: Boolean

Required: No

roleArn

The ARN of the role that grants permission to send notifications to the target.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

targetArn

The ARN of the target (SNS topic) to which audit notifications are sent.

Type: String

Length Constraints: Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditSuppression

Service: AWS IoT

Filters out specific findings of a Device Defender audit.

Contents

checkName

An audit check name. Checks must be enabled for your account. (Use [DescribeAccountAuditConfiguration](#) to see the list of all checks, including those that are enabled or use [UpdateAccountAuditConfiguration](#) to select which checks are enabled.)

Type: String

Required: Yes

description

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}]\x20]*

Required: No

expirationDate

The expiration date (epoch timestamp in seconds) that you want the suppression to adhere to.

Type: Timestamp

Required: No

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: Yes

suppressIndefinitely

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

AuditTaskMetadata

Service: AWS IoT

The audits that were performed.

Contents

taskId

The ID of this audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-\-]+

Required: No

taskStatus

The status of this audit. One of "IN_PROGRESS", "COMPLETED", "FAILED", or "CANCELED".

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

Required: No

taskType

The type of this audit. One of "ON_DEMAND_AUDIT_TASK" or "SCHEDULED_AUDIT_TASK".

Type: String

Valid Values: ON_DEMAND_AUDIT_TASK | SCHEDULED_AUDIT_TASK

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthInfo

Service: AWS IoT

A collection of authorization information.

Contents

actionType

The type of action for which the principal is being authorized.

Type: String

Valid Values: PUBLISH | SUBSCRIBE | RECEIVE | CONNECT

Required: No

resources

The resources for which the principal is being authorized to perform the specified action.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: [\s\S]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthorizerConfig

Service: AWS IoT

An object that specifies the authorization service for a domain.

Contents

allowAuthorizerOverride

A Boolean that specifies whether the domain configuration's authorization service can be overridden.

Type: Boolean

Required: No

defaultAuthorizerName

The name of the authorization service for a domain configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w=,@-]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthorizerDescription

Service: AWS IoT

The authorizer description.

Contents

authorizerArn

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

authorizerFunctionArn

The authorizer's Lambda function ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: [\s\S]*

Required: No

authorizerName

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w=,@-]+

Required: No

creationDate

The UNIX timestamp of when the authorizer was created.

Type: Timestamp

Required: No

enableCachingForHttp

When true, the result from the authorizer's Lambda function is cached for the time specified in refreshAfterInSeconds. The cached result is used while the device reuses the same HTTP connection.

Type: Boolean

Required: No

lastModifiedDate

The UNIX timestamp of when the authorizer was last updated.

Type: Timestamp

Required: No

signingDisabled

Specifies whether AWS IoT validates the token signature in an authorization request.

Type: Boolean

Required: No

status

The status of the authorizer.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

tokenKeyName

The key used to extract the token from the HTTP headers.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

tokenSigningPublicKeys

The public keys used to validate the token signature returned by your custom authentication service.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Maximum length of 5120.

Value Pattern: [\s\S]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthorizerSummary

Service: AWS IoT

The authorizer summary.

Contents

authorizerArn

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

authorizerName

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w=,@-]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthResult

Service: AWS IoT

The authorizer result.

Contents

allowed

The policies and statements that allowed the specified action.

Type: [Allowed \(p. 820\)](#) object

Required: No

authDecision

The final authorization decision of this scenario. Multiple statements are taken into account when determining the authorization decision. An explicit deny statement can override multiple allow statements.

Type: String

Valid Values: ALLOWED | EXPLICIT_DENY | IMPLICIT_DENY

Required: No

authInfo

Authorization information.

Type: [AuthInfo \(p. 838\)](#) object

Required: No

denied

The policies and statements that denied the specified action.

Type: [Denied \(p. 881\)](#) object

Required: No

missingContextValues

Contains any missing context values found while evaluating policy.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobAbortConfig

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

abortCriteriaList

The list of criteria that determine when and how to abort the job.

Type: Array of [AwsJobAbortCriteria \(p. 845\)](#) objects

Array Members: Minimum number of 1 item.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobAbortCriteria

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

action

The type of job action to take to initiate the job abort.

Type: String

Valid Values: CANCEL

Required: Yes

failureType

The type of job execution failures that can initiate a job abort.

Type: String

Valid Values: FAILED | REJECTED | TIMED_OUT | ALL

Required: Yes

minNumberOfExecutedThings

The minimum number of things which must receive job execution notifications before the job can be aborted.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

thresholdPercentage

The minimum percentage of job execution failures that must occur to initiate the job abort.

AWS IoT Core supports up to two digits after the decimal (for example, 10.9 and 10.99, but not 10.999).

Type: Double

Valid Range: Maximum value of 100.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobExecutionsRolloutConfig

Service: AWS IoT

Configuration for the rollout of OTA updates.

Contents

exponentialRate

The rate of increase for a job rollout. This parameter allows you to define an exponential rate increase for a job rollout.

Type: [AwsJobExponentialRolloutRate \(p. 848\)](#) object

Required: No

maximumPerMinute

The maximum number of OTA update job executions started per minute.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobExponentialRolloutRate

Service: AWS IoT

The rate of increase for a job rollout. This parameter allows you to define an exponential rate increase for a job rollout.

Contents

baseRatePerMinute

The minimum number of things that will be notified of a pending job, per minute, at the start of the job rollout. This is the initial rate of the rollout.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

incrementFactor

The rate of increase for a job rollout. The number of things notified is multiplied by this factor.

Type: Double

Required: Yes

rateIncreaseCriteria

The criteria to initiate the increase in rate of rollout for a job.

AWS IoT Core supports up to one digit after the decimal (for example, 1.5, but not 1.55).

Type: [AwsJobRateIncreaseCriteria \(p. 850\)](#) object

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobPresignedUrlConfig

Service: AWS IoT

Configuration information for pre-signed URLs. Valid when `protocols` contains HTTP.

Contents

expiresInSec

How long (in seconds) pre-signed URLs are valid. Valid values are 60 - 3600, the default value is 1800 seconds. Pre-signed URLs are generated when a request for the job document is received.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobRateIncreaseCriteria

Service: AWS IoT

The criteria to initiate the increase in rate of rollout for a job.

Contents

numberOfNotifiedThings

When this number of things have been notified, it will initiate an increase in the rollout rate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

numberOfSucceededThings

When this number of things have succeeded in their job execution, it will initiate an increase in the rollout rate.

Type: Integer

Valid Range: Minimum value of 1.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobTimeoutConfig

Service: AWS IoT

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Contents

inProgressTimeoutInMinutes

Specifies the amount of time, in minutes, this device has to finish execution of this job. The timeout interval can be anywhere between 1 minute and 7 days (1 to 10080 minutes). The in progress timer can't be updated and will apply to all job executions for the job. Whenever a job execution remains in the IN_PROGRESS status for longer than this interval, the job execution will fail and switch to the terminal TIMED_OUT status.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Behavior

Service: AWS IoT

A Device Defender security profile behavior.

Contents

criteria

The criteria that determine if a device is behaving normally in regard to the **metric**.

Type: [BehaviorCriteria \(p. 854\)](#) object

Required: No

metric

What is measured by the behavior.

Type: String

Required: No

metricDimension

The dimension for a metric in your behavior. For example, using a TOPIC_FILTER dimension, you can narrow down the scope of the metric to only MQTT topics where the name matches the pattern specified in the dimension. This can't be used with custom metrics.

Type: [MetricDimension \(p. 955\)](#) object

Required: No

name

The name you've given to the behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

suppressAlerts

Suppresses alerts.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

BehaviorCriteria

Service: AWS IoT

The criteria by which the behavior is determined to be normal.

Contents

comparisonOperator

The operator that relates the thing measured (`metric`) to the criteria (containing a value or `statisticalThreshold`). Valid operators include:

- `string-list`: `in-set` and `not-in-set`
- `number-list`: `in-set` and `not-in-set`
- `ip-address-list`: `in-cidr-set` and `not-in-cidr-set`
- `number`: `less-than`, `less-than-equals`, `greater-than`, and `greater-than-equals`

Type: String

Valid Values: `less-than` | `less-than-equals` | `greater-than` | `greater-than-equals` | `in-cidr-set` | `not-in-cidr-set` | `in-port-set` | `not-in-port-set` | `in-set` | `not-in-set`

Required: No

consecutiveDatapointsToAlarm

If a device is in violation of the behavior for the specified number of consecutive datapoints, an alarm occurs. If not specified, the default is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

consecutiveDatapointsToClear

If an alarm has occurred and the offending device is no longer in violation of the behavior for the specified number of consecutive datapoints, the alarm is cleared. If not specified, the default is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

durationSeconds

Use this to specify the time duration over which the behavior is evaluated, for those criteria that have a time dimension (for example, `NUM_MESSAGES_SENT`). For a `statisticalThreshold` metric comparison, measurements from all devices are accumulated over this time duration before being used to calculate percentiles, and later, measurements from an individual device are also accumulated over this time duration before being given a percentile rank. Cannot be used with list-based metric datatypes.

Type: Integer

Required: No

mlDetectionConfig

The configuration of an ML Detect

Type: [MachineLearningDetectionConfig \(p. 951\)](#) object

Required: No

statisticalThreshold

A statistical ranking (percentile)that indicates a threshold value by which a behavior is determined to be in compliance or in violation of the behavior.

Type: [StatisticalThreshold \(p. 1012\)](#) object

Required: No

value

The value to be compared with the metric.

Type: [MetricValue \(p. 957\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BehaviorModelTrainingSummary

Service: AWS IoT

The summary of an ML Detect behavior model.

Contents

behaviorName

The name of the behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

datapointsCollectionPercentage

The percentage of datapoints collected.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

lastModelRefreshDate

The date the model was last refreshed.

Type: Timestamp

Required: No

modelStatus

The status of the behavior model.

Type: String

Valid Values: PENDING_BUILD | ACTIVE | EXPIRED

Required: No

securityProfileName

The name of the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

trainingDataCollectionStartDate

The date a training model started collecting data.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BillingGroupMetadata

Service: AWS IoT

Additional information about the billing group.

Contents

creationDate

The date the billing group was created.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BillingGroupProperties

Service: AWS IoT

The properties of a billing group.

Contents

billingGroupDescription

The description of the billing group.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [\p{Graph}\x20]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Bucket

Service: AWS IoT

A count of documents that meets a specific aggregation criteria.

Contents

count

The number of documents that have the value counted for the particular bucket.

Type: Integer

Required: No

keyValue

The value counted for the particular bucket.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BucketsAggregationType

Service: AWS IoT

The type of bucketed aggregation performed.

Contents

termsAggregation

Performs an aggregation that will return a list of buckets. The list of buckets is a ranked list of the number of occurrences of an aggregation field value.

Type: [TermsAggregation \(p. 1025\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CACertificate

Service: AWS IoT

A CA certificate.

Contents

certificateArn

The ARN of the CA certificate.

Type: String

Required: No

certificateId

The ID of the CA certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

creationDate

The date the CA certificate was created.

Type: Timestamp

Required: No

status

The status of the CA certificate.

The status value REGISTER_INACTIVE is deprecated and should not be used.

Type: String

Valid Values: ACTIVE | INACTIVE

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CACertificateDescription

Service: AWS IoT

Describes a CA certificate.

Contents

autoRegistrationStatus

Whether the CA certificate configured for auto registration of device certificates. Valid values are "ENABLE" and "DISABLE"

Type: String

Valid Values: ENABLE | DISABLE

Required: No

certificateArn

The CA certificate ARN.

Type: String

Required: No

certificateId

The CA certificate ID.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

certificateMode

The mode of the CA.

All the device certificates that are registered using this CA will be registered in the same mode as the CA. For more information about certificate mode for device certificates, see [certificate mode](#).

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

certificatePem

The CA certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: No

creationDate

The date the CA certificate was created.

Type: Timestamp

Required: No

customerVersion

The customer version of the CA certificate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

generationId

The generation ID of the CA certificate.

Type: String

Required: No

lastModifiedDate

The date the CA certificate was last modified.

Type: Timestamp

Required: No

ownedBy

The owner of the CA certificate.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: No

status

The status of a CA certificate.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

validity

When the CA certificate is valid.

Type: [CertificateValidity \(p. 871\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Certificate

Service: AWS IoT

Information about a certificate.

Contents

certificateArn

The ARN of the certificate.

Type: String

Required: No

certificateId

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

certificateMode

The mode of the certificate.

DEFAULT: A certificate in DEFAULT mode is either generated by AWS IoT Core or registered with an issuer certificate authority (CA) in DEFAULT mode. Devices with certificates in DEFAULT mode aren't required to send the Server Name Indication (SNI) extension when connecting to AWS IoT Core. However, to use features such as custom domains and VPC endpoints, we recommend that you use the SNI extension when connecting to AWS IoT Core.

SNI_ONLY: A certificate in SNI_ONLY mode is registered without an issuer CA. Devices with certificates in SNI_ONLY mode must send the SNI extension when connecting to AWS IoT Core.

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

creationDate

The date and time the certificate was created.

Type: Timestamp

Required: No

status

The status of the certificate.

The status value REGISTER_INACTIVE is deprecated and should not be used.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CertificateDescription

Service: AWS IoT

Describes a certificate.

Contents

caCertificateId

The certificate ID of the CA certificate used to sign this certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: `(0x)?[a-fA-F0-9]+`

Required: No

certificateArn

The ARN of the certificate.

Type: String

Required: No

certificateId

The ID of the certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: `(0x)?[a-fA-F0-9]+`

Required: No

certificateMode

The mode of the certificate.

DEFAULT: A certificate in DEFAULT mode is either generated by AWS IoT Core or registered with an issuer certificate authority (CA) in DEFAULT mode. Devices with certificates in DEFAULT mode aren't required to send the Server Name Indication (SNI) extension when connecting to AWS IoT Core. However, to use features such as custom domains and VPC endpoints, we recommend that you use the SNI extension when connecting to AWS IoT Core.

SNI_ONLY: A certificate in SNI_ONLY mode is registered without an issuer CA. Devices with certificates in SNI_ONLY mode must send the SNI extension when connecting to AWS IoT Core.

For more information about the value for SNI extension, see [Transport security in AWS IoT](#).

Type: String

Valid Values: `DEFAULT | SNI_ONLY`

Required: No

certificatePem

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\s\S]*

Required: No

creationDate

The date and time the certificate was created.

Type: Timestamp

Required: No

customerVersion

The customer version of the certificate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

generationId

The generation ID of the certificate.

Type: String

Required: No

lastModifiedDate

The date and time the certificate was last modified.

Type: Timestamp

Required: No

ownedBy

The ID of the AWS account that owns the certificate.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9] +

Required: No

previousOwnedBy

The ID of the AWS account of the previous owner of the certificate.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9] +

Required: No

status

The status of the certificate.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

transferData

The transfer data.

Type: [TransferData \(p. 1057\)](#) object

Required: No

validity

When the certificate is valid.

Type: [CertificateValidity \(p. 871\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CertificateValidity

Service: AWS IoT

When the certificate is valid.

Contents

notAfter

The certificate is not valid after this date.

Type: Timestamp

Required: No

notBefore

The certificate is not valid before this date.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CloudwatchAlarmAction

Service: AWS IoT

Describes an action that updates a CloudWatch alarm.

Contents

alarmName

The CloudWatch alarm name.

Type: String

Required: Yes

roleArn

The IAM role that allows access to the CloudWatch alarm.

Type: String

Required: Yes

stateReason

The reason for the alarm change.

Type: String

Required: Yes

stateValue

The value of the alarm state. Acceptable values are: OK, ALARM, INSUFFICIENT_DATA.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CloudwatchLogsAction

Service: AWS IoT

Describes an action that sends data to CloudWatch Logs.

Contents

logGroupName

The CloudWatch log group to which the action sends data.

Type: String

Required: Yes

roleArn

The IAM role that allows access to the CloudWatch log.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CloudwatchMetricAction

Service: AWS IoT

Describes an action that captures a CloudWatch metric.

Contents

metricName

The CloudWatch metric name.

Type: String

Required: Yes

metricNamespace

The CloudWatch metric namespace name.

Type: String

Required: Yes

metricTimestamp

An optional [Unix timestamp](#).

Type: String

Required: No

metricUnit

The [metric unit](#) supported by CloudWatch.

Type: String

Required: Yes

metricValue

The CloudWatch metric value.

Type: String

Required: Yes

roleArn

The IAM role that allows access to the CloudWatch metric.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

CodeSigning

Service: AWS IoT

Describes the method to use when code signing a file.

Contents

awsSignerJobId

The ID of the AWSSignerJob which was created to sign the file.

Type: String

Required: No

customCodeSigning

A custom method for code signing a file.

Type: [CustomCodeSigning \(p. 880\)](#) object

Required: No

startSigningJobParameter

Describes the code-signing job.

Type: [StartSigningJobParameter \(p. 1011\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeSigningCertificateChain

Service: AWS IoT

Describes the certificate chain being used when code signing a file.

Contents

certificateName

The name of the certificate.

Type: String

Required: No

inlineDocument

A base64 encoded binary representation of the code signing certificate chain.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeSigningSignature

Service: AWS IoT

Describes the signature for a file.

Contents

inlineDocument

A base64 encoded binary representation of the code signing signature.

Type: Base64-encoded binary data 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Configuration

Service: AWS IoT

Configuration.

Contents

Enabled

True to enable the configuration.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CustomCodeSigning

Service: AWS IoT

Describes a custom method used to code sign a file.

Contents

certificateChain

The certificate chain.

Type: [CodeSigningCertificateChain \(p. 877\)](#) object

Required: No

hashAlgorithm

The hash algorithm used to code sign the file. You can use a string as the algorithm name if the target over-the-air (OTA) update devices are able to verify the signature that was generated using the same signature algorithm. For example, FreeRTOS uses SHA256 or SHA1, so you can pass either of them based on which was used for generating the signature.

Type: String

Required: No

signature

The signature for the file.

Type: [CodeSigningSignature \(p. 878\)](#) object

Required: No

signatureAlgorithm

The signature algorithm used to code sign the file. You can use a string as the algorithm name if the target over-the-air (OTA) update devices are able to verify the signature that was generated using the same signature algorithm. For example, FreeRTOS uses ECDSA or RSA, so you can pass either of them based on which was used for generating the signature.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Denied

Service: AWS IoT

Contains information that denied the authorization.

Contents

explicitDeny

Information that explicitly denies the authorization.

Type: [ExplicitDeny \(p. 900\)](#) object

Required: No

implicitDeny

Information that implicitly denies the authorization. When a policy doesn't explicitly deny or allow an action on a resource it is considered an implicit deny.

Type: [ImplicitDeny \(p. 915\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Destination

Service: AWS IoT

Describes the location of the updated firmware.

Contents

s3Destination

Describes the location in S3 of the updated firmware.

Type: [S3Destination \(p. 998\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionExecution

Service: AWS IoT

Describes which mitigation actions should be executed.

Contents

actionName

The friendly name that uniquely identifies the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

errorCode

The error code of a mitigation action.

Type: String

Required: No

executionEndDate

The date a mitigation action ended.

Type: Timestamp

Required: No

executionStartDate

The date a mitigation action was started.

Type: Timestamp

Required: No

message

The message of a mitigation action.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

status

The status of a mitigation action.

Type: String

Valid Values: IN_PROGRESS | SUCCESSFUL | FAILED | SKIPPED

Required: No

taskId

The unique identifier of the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

thingName

The name of the thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

violationId

The unique identifier of the violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+\+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionsTaskStatistics

Service: AWS IoT

The statistics of a mitigation action task.

Contents

actionsExecuted

The actions that were performed.

Type: Long

Required: No

actionsFailed

The actions that failed.

Type: Long

Required: No

actionsSkipped

The actions that were skipped.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionsTaskSummary

Service: AWS IoT

The summary of the mitigation action tasks.

Contents

actionsDefinition

The definition of the actions.

Type: Array of [MitigationAction \(p. 959\)](#) objects

Required: No

onlyActiveViolationsIncluded

Includes only active violations.

Type: Boolean

Required: No

suppressedAlertsIncluded

Includes suppressed alerts.

Type: Boolean

Required: No

target

Specifies the ML Detect findings to which the mitigation actions are applied.

Type: [DetectMitigationActionsTaskTarget \(p. 888\)](#) object

Required: No

taskEndTime

The date the task ended.

Type: Timestamp

Required: No

taskId

The unique identifier of the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

taskStartTime

The date the task started.

Type: Timestamp

Required: No

taskStatistics

The statistics of a mitigation action task.

Type: [DetectMitigationActionsTaskStatistics \(p. 885\)](#) object

Required: No

taskStatus

The status of the task.

Type: String

Valid Values: IN_PROGRESS | SUCCESSFUL | FAILED | CANCELED

Required: No

violationEventOccurrenceRange

Specifies the time period of which violation events occurred between.

Type: [ViolationEventOccurrenceRange \(p. 1065\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionsTaskTarget

Service: AWS IoT

The target of a mitigation action task.

Contents

behaviorName

The name of the behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

securityProfileName

The name of the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

violationIds

The unique identifiers of the violations.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DocumentParameter

Service: AWS IoT

A map of key-value pairs containing the patterns that need to be replaced in a managed template job document schema. You can use the description of each key as a guidance to specify the inputs during runtime when creating a job.

Note

`documentParameters` can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Contents

description

Description of the map field containing the patterns that need to be replaced in a managed template job document schema.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

example

An example illustrating a pattern that need to be replaced in a managed template job document schema.

Type: String

Pattern: [^\p{C}]+

Required: No

key

Key of the map field containing the patterns that need to be replaced in a managed template job document schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

optional

Specifies whether a pattern that needs to be replaced in a managed template job document schema is optional or required.

Type: Boolean

Required: No

regex

A regular expression of the patterns that need to be replaced in a managed template job document schema.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DomainConfigurationSummary

Service: AWS IoT

The summary of a domain configuration. A domain configuration specifies custom IoT-specific information about a domain. A domain configuration can be associated with an AWS-managed domain (for example, dbc123defghijk.iot.us-west-2.amazonaws.com), a customer managed domain, or a default endpoint.

- Data
- Jobs
- CredentialProvider

Contents

domainConfigurationArn

The ARN of the domain configuration.

Type: String

Required: No

domainConfigurationName

The name of the domain configuration. This value must be unique to a region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w.:-]+

Required: No

serviceType

The type of service delivered by the endpoint.

Type: String

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DynamoDBAction

Service: AWS IoT

Describes an action to write to a DynamoDB table.

The `tableName`, `hashKeyField`, and `rangeKeyField` values must match the values used when you created the table.

The `hashKeyValue` and `rangeKeyValue` fields use a substitution template syntax. These templates provide data at runtime. The syntax is as follows: `${sql-expression}`.

You can specify any valid expression in a WHERE or SELECT clause, including JSON properties, comparisons, calculations, and functions. For example, the following field uses the third level of the topic:

```
"hashKeyValue": "${topic(3)}"
```

The following field uses the timestamp:

```
"rangeKeyValue": "${timestamp()}"
```

Contents

hashKeyField

The hash key name.

Type: String

Required: Yes

hashKeyType

The hash key type. Valid values are "STRING" or "NUMBER"

Type: String

Valid Values: STRING | NUMBER

Required: No

hashKeyValue

The hash key value.

Type: String

Required: Yes

operation

The type of operation to be performed. This follows the substitution template, so it can be `${operation}`, but the substitution must result in one of the following: INSERT, UPDATE, or DELETE.

Type: String

Required: No

payloadField

The action payload. This name can be customized.

Type: String

Required: No

rangeKeyField

The range key name.

Type: String

Required: No

rangeKeyType

The range key type. Valid values are "STRING" or "NUMBER"

Type: String

Valid Values: STRING | NUMBER

Required: No

rangeKeyValue

The range key value.

Type: String

Required: No

roleArn

The ARN of the IAM role that grants access to the DynamoDB table.

Type: String

Required: Yes

tableName

The name of the DynamoDB table.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DynamoDBv2Action

Service: AWS IoT

Describes an action to write to a DynamoDB table.

This DynamoDB action writes each attribute in the message payload into its own column in the DynamoDB table.

Contents

putItem

Specifies the DynamoDB table to which the message data will be written. For example:

```
{ "dynamoDBv2": { "roleArn": "aws:iam:12341251:my-role" "putItem": { "tableName": "my-table" } } }
```

Each attribute in the message payload will be written to a separate column in the DynamoDB database.

Type: [PutItemInput \(p. 986\)](#) object

Required: Yes

roleArn

The ARN of the IAM role that grants access to the DynamoDB table.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EffectivePolicy

Service: AWS IoT

The policy that has the effect on the authorization results.

Contents

policyArn

The policy ARN.

Type: String

Required: No

policyDocument

The IAM policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: [\s\S]*

Required: No

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w+=,.@-]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ElasticsearchAction

Service: AWS IoT

Describes an action that writes data to an Amazon OpenSearch Service domain.

Note

The Elasticsearch action can only be used by existing rule actions. To create a new rule action or to update an existing rule action, use the OpenSearch rule action instead. For more information, see [OpenSearchAction](#).

Contents

endpoint

The endpoint of your OpenSearch domain.

Type: String

Pattern: `https?://.*`

Required: Yes

id

The unique identifier for the document you are storing.

Type: String

Required: Yes

index

The index where you want to store your data.

Type: String

Required: Yes

roleArn

The IAM role ARN that has access to OpenSearch.

Type: String

Required: Yes

type

The type of document you are storing.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

EnableIoTLoggingParams

Service: AWS IoT

Parameters used when defining a mitigation action that enable AWS IoT Core logging.

Contents

LogLevel

Specifies the type of information to be logged.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: Yes

roleArnForLogging

The Amazon Resource Name (ARN) of the IAM role used for logging.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ErrorInfo

Service: AWS IoT

Error information.

Contents

code

The error code.

Type: String

Required: No

message

The error message.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExplicitDeny

Service: AWS IoT

Information that explicitly denies authorization.

Contents

policies

The policies that denied the authorization.

Type: Array of [Policy \(p. 975\)](#) objects

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExponentialRolloutRate

Service: AWS IoT

Allows you to create an exponential rate of rollout for a job.

Contents

baseRatePerMinute

The minimum number of things that will be notified of a pending job, per minute at the start of job rollout. This parameter allows you to define the initial rate of rollout.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

incrementFactor

The exponential factor to increase the rate of rollout for a job.

AWS IoT Core supports up to one digit after the decimal (for example, 1.5, but not 1.55).

Type: Double

Valid Range: Minimum value of 1.1. Maximum value of 5.

Required: Yes

rateIncreaseCriteria

The criteria to initiate the increase in rate of rollout for a job.

Type: [RateIncreaseCriteria \(p. 987\)](#) object

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Field

Service: AWS IoT

Describes the name and data type at a field.

Contents

name

The name of the field.

Type: String

Required: No

type

The data type of the field.

Type: String

Valid Values: Number | String | Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FileLocation

Service: AWS IoT

The location of the OTA update.

Contents

s3Location

The location of the updated firmware in S3.

Type: [S3Location \(p. 999\)](#) object

Required: No

stream

The stream that contains the OTA update.

Type: [Stream \(p. 1016\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FirehoseAction

Service: AWS IoT

Describes an action that writes data to an Amazon Kinesis Firehose stream.

Contents

batchMode

Whether to deliver the Kinesis Data Firehose stream as a batch by using [PutRecordBatch](#). The default value is false.

When batchMode is true and the rule's SQL statement evaluates to an Array, each Array element forms one record in the [PutRecordBatch](#) request. The resulting array can't have more than 500 records.

Type: Boolean

Required: No

deliveryStreamName

The delivery stream name.

Type: String

Required: Yes

roleArn

The IAM role that grants access to the Amazon Kinesis Firehose stream.

Type: String

Required: Yes

separator

A character separator that will be used to separate records written to the Firehose stream. Valid values are: '\n' (newline), '\t' (tab), '\r\n' (Windows newline), ',' (comma).

Type: String

Pattern: ([\n\t])|(\r\n)|(,)

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FleetMetricNameAndArn

Service: AWS IoT

The name and ARN of a fleet metric.

Contents

metricArn

The fleet metric ARN.

Type: String

Required: No

metricName

The fleet metric name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\\-\\.]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

GroupNameAndArn

Service: AWS IoT

The name and ARN of a group.

Contents

groupArn

The group ARN.

Type: String

Required: No

groupName

The group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpAction

Service: AWS IoT

Send data to an HTTPS endpoint.

Contents

auth

The authentication method to use when sending data to an HTTPS endpoint.

Type: [HttpAuthorization \(p. 910\)](#) object

Required: No

confirmationUrl

The URL to which AWS IoT sends a confirmation message. The value of the confirmation URL must be a prefix of the endpoint URL. If you do not specify a confirmation URL AWS IoT uses the endpoint URL as the confirmation URL. If you use substitution templates in the confirmationUrl, you must create and enable topic rule destinations that match each possible value of the substitution template before traffic is allowed to your endpoint URL.

Type: String

Length Constraints: Maximum length of 2000.

Required: No

headers

The HTTP headers to send with the message data.

Type: Array of [HttpActionHeader \(p. 909\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

url

The endpoint URL. If substitution templates are used in the URL, you must also specify a confirmationUrl. If this is a new destination, a new TopicRuleDestination is created if possible.

Type: String

Length Constraints: 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpActionHeader

Service: AWS IoT

The HTTP action header.

Contents

key

The HTTP header key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

value

The HTTP header value. Substitution templates are supported.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpAuthorization

Service: AWS IoT

The authorization method used to send messages.

Contents

sigv4

Use Sig V4 authorization. For more information, see [Signature Version 4 Signing Process](#).

Type: [SigV4Authorization \(p. 1008\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpContext

Service: AWS IoT

Specifies the HTTP context to use for the test authorizer request.

Contents

headers

The header keys and values in an HTTP authorization request.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 8192.

Key Pattern: [\s\S]*

Value Length Constraints: Minimum length of 1. Maximum length of 8192.

Value Pattern: [\s\S]*

Required: No

queryString

The query string keys and values in an HTTP authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: [\s\S]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpUrlDestinationConfiguration

Service: AWS IoT

HTTP URL destination configuration used by the topic rule's HTTP action.

Contents

confirmationUrl

The URL AWS IoT uses to confirm ownership of or access to the topic rule destination URL.

Type: String

Length Constraints: 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpUrlDestinationProperties

Service: AWS IoT

HTTP URL destination properties.

Contents

confirmationUrl

The URL used to confirm the HTTP topic rule destination URL.

Type: String

Length Constraints: Maximum length of 2000.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpUrlDestinationSummary

Service: AWS IoT

Information about an HTTP URL destination.

Contents

confirmationUrl

The URL used to confirm ownership of or access to the HTTP topic rule destination URL.

Type: String

Length Constraints: Maximum length of 2000.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ImplicitDeny

Service: AWS IoT

Information that implicitly denies authorization. When policy doesn't explicitly deny or allow an action on a resource it is considered an implicit deny.

Contents

policies

Policies that don't contain a matching allow or deny statement for the specified action on the specified resource.

Type: Array of [Policy \(p. 975\)](#) objects

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IndexingFilter

Service: AWS IoT

Provides additional filters for specific data sources. Named shadow is the only data source that currently supports and requires a filter. To add named shadows to your fleet indexing configuration, set `namedShadowIndexingMode` to be ON and specify your shadow names in `filter`.

Contents

namedShadowNames

The shadow names that you select to index. The default maximum number of shadow names for indexing is 10. To increase the limit, see [AWS IoT Device Management Quotas](#) in the *AWS General Reference*.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IoTAnalyticsAction

Service: AWS IoT

Sends message data to an AWS IoT Analytics channel.

Contents

batchMode

Whether to process the action as a batch. The default value is `false`.

When `batchMode` is `true` and the rule SQL statement evaluates to an Array, each Array element is delivered as a separate message when passed by [BatchPutMessage](#) to the AWS IoT Analytics channel. The resulting array can't have more than 100 messages.

Type: Boolean

Required: No

channelArn

(deprecated) The ARN of the IoT Analytics channel to which message data will be sent.

Type: String

Required: No

channelName

The name of the IoT Analytics channel to which message data will be sent.

Type: String

Required: No

roleArn

The ARN of the role which has a policy that grants IoT Analytics permission to send message data via IoT Analytics (`iotanalytics:BatchPutMessage`).

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IoTEventsAction

Service: AWS IoT

Sends an input to an AWS IoT Events detector.

Contents

batchMode

Whether to process the event actions as a batch. The default value is `false`.

When `batchMode` is `true`, you can't specify a `messageId`.

When `batchMode` is `true` and the rule SQL statement evaluates to an Array, each Array element is treated as a separate message when it's sent to AWS IoT Events by calling [BatchPutMessage](#). The resulting array can't have more than 10 messages.

Type: Boolean

Required: No

inputName

The name of the AWS IoT Events input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

messageId

The ID of the message. The default `messageId` is a new UUID value.

When `batchMode` is `true`, you can't specify a `messageId`--a new UUID value will be assigned.

Assign a value to this property to ensure that only one input (message) with a given `messageId` will be processed by an AWS IoT Events detector.

Type: String

Length Constraints: Maximum length of 128.

Required: No

roleArn

The ARN of the role that grants AWS IoT permission to send an input to an AWS IoT Events detector. ("Action":"iotevents:BatchPutMessage").

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IoTSiteWiseAction

Service: AWS IoT

Describes an action to send data from an MQTT message that triggered the rule to AWS IoT SiteWise asset properties.

Contents

putAssetPropertyValueEntries

A list of asset property value entries.

Type: Array of [PutAssetPropertyValueEntry \(p. 984\)](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

roleArn

The ARN of the role that grants AWS IoT permission to send an asset property value to AWS IoT SiteWise. ("Action": "iotsitewise:BatchPutAssetPropertyValue"). The trust policy can restrict access to specific asset hierarchy paths.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IssuerCertificateIdentifier

Service: AWS IoT

The certificate issuer identifier.

Contents

issuerCertificateSerialNumber

The issuer certificate serial number.

Type: String

Length Constraints: Maximum length of 20.

Pattern: [a-fA-F0-9:]+

Required: No

issuerCertificateSubject

The subject of the issuer certificate.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

Required: No

issuerId

The issuer ID.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (0x)?[a-fA-F0-9:]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Job

Service: AWS IoT

The Job object contains details about a job.

Contents

abortConfig

Configuration for criteria to abort the job.

Type: [AbortConfig \(p. 808\)](#) object

Required: No

comment

If the job was updated, describes the reason for the update.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

completedAt

The time, in seconds since the epoch, when the job was completed.

Type: Timestamp

Required: No

createdAt

The time, in seconds since the epoch, when the job was created.

Type: Timestamp

Required: No

description

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

documentParameters

A key-value map that pairs the patterns that need to be replaced in a managed template job document schema. You can use the description of each key as a guidance to specify the inputs during runtime when creating a job.

Note

documentParameters can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9_-]+

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Value Pattern: [^\p{C}]+

Required: No

forceCanceled

Will be true if the job was canceled with the optional force parameter set to true.

Type: Boolean

Required: No

isConcurrent

Indicates whether a job is concurrent. Will be true when a job is rolling out new job executions or canceling previously created executions, otherwise false.

Type: Boolean

Required: No

jobArn

An ARN identifying the job with format "arn:aws:iot:region:account:job/jobId".

Type: String

Required: No

jobExecutionsRetryConfig

The configuration for the criteria to retry the job.

Type: [JobExecutionsRetryConfig \(p. 928\)](#) object

Required: No

jobExecutionsRolloutConfig

Allows you to create a staged rollout of a job.

Type: [JobExecutionsRolloutConfig \(p. 929\)](#) object

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

jobProcessDetails

Details about the job process.

Type: [JobProcessDetails \(p. 935\)](#) object

Required: No

jobTemplateArn

The ARN of the job template used to create the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job was last updated.

Type: Timestamp

Required: No

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is in public preview.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

presignedUrlConfig

Configuration for pre-signed S3 URLs.

Type: [PresignedUrlConfig \(p. 978\)](#) object

Required: No

reasonCode

If the job was updated, provides the reason code for the update.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\p{Upper}\p{Digit}_]+

Required: No

status

The status of the job, one of IN_PROGRESS, CANCELED, DELETION_IN_PROGRESS or COMPLETED.

Type: String

Valid Values: IN_PROGRESS | CANCELED | COMPLETED | DELETION_IN_PROGRESS

Required: No

targets

A list of IoT things and thing groups to which the job should be sent.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 2048.

Required: No

targetSelection

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a device when the thing representing the device is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

timeoutConfig

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig \(p. 1041\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecution

Service: AWS IoT

The job execution object represents the execution of a job on a particular device.

Contents

approximateSecondsBeforeTimedOut

The estimated number of seconds that remain before the job execution status will be changed to TIMED_OUT. The timeout interval can be anywhere between 1 minute and 7 days (1 to 10080 minutes). The actual job execution timeout can occur up to 60 seconds later than the estimated duration. This value will not be included if the job execution has reached a terminal status.

Type: Long

Required: No

executionNumber

A string (consisting of the digits "0" through "9") which identifies this particular job execution on this particular device. It can be used in commands which return or update job execution information.

Type: Long

Required: No

forceCanceled

Will be true if the job execution was canceled with the optional force parameter set to true.

Type: Boolean

Required: No

jobId

The unique identifier you assigned to the job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Timestamp

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was queued.

Type: Timestamp

Required: No

startedAt

The time, in seconds since the epoch, when the job execution started.

Type: Timestamp

Required: No

status

The status of the job execution (IN_PROGRESS, QUEUED, FAILED, SUCCEEDED, TIMED_OUT, CANCELED, or REJECTED).

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution.

Type: [JobExecutionStatusDetails \(p. 930\)](#) object

Required: No

thingArn

The ARN of the thing on which the job execution is running.

Type: String

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time they are updated by a device.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionsRetryConfig

Service: AWS IoT

The configuration that determines how many retries are allowed for each failure type for a job.

Contents

criteriaList

The list of criteria that determines how many retries are allowed for each failure type for a job.

Type: Array of [RetryCriteria \(p. 994\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionsRolloutConfig

Service: AWS IoT

Allows you to create a staged rollout of a job.

Contents

exponentialRate

The rate of increase for a job rollout. This parameter allows you to define an exponential rate for a job rollout.

Type: [ExponentialRolloutRate \(p. 901\)](#) object

Required: No

maximumPerMinute

The maximum number of things that will be notified of a pending job, per minute. This parameter allows you to create a staged rollout.

Type: Integer

Valid Range: Minimum value of 1.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionStatusDetails

Service: AWS IoT

Details of the job execution status.

Contents

detailsMap

The job execution status.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummary

Service: AWS IoT

The job execution summary.

Contents

executionNumber

A string (consisting of the digits "0" through "9") which identifies this particular job execution on this particular device. It can be used later in commands which return or update job execution information.

Type: Long

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Timestamp

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was queued.

Type: Timestamp

Required: No

retryAttempt

The number that indicates how many retry attempts have been completed for this job on this device.

Type: Integer

Required: No

startedAt

The time, in seconds since the epoch, when the job execution started.

Type: Timestamp

Required: No

status

The status of the job execution.

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummaryForJob

Service: AWS IoT

Contains a summary of information about job executions for a specific job.

Contents

jobExecutionSummary

Contains a subset of information about a job execution.

Type: [JobExecutionSummary \(p. 931\)](#) object

Required: No

thingArn

The ARN of the thing on which the job execution is running.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummaryForThing

Service: AWS IoT

The job execution summary for a thing.

Contents

jobExecutionSummary

Contains a subset of information about a job execution.

Type: [JobExecutionSummary \(p. 931\)](#) object

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobProcessDetails

Service: AWS IoT

The job process details.

Contents

numberOfCanceledThings

The number of things that cancelled the job.

Type: Integer

Required: No

numberOfFailedThings

The number of things that failed executing the job.

Type: Integer

Required: No

numberOfInProgressThings

The number of things currently executing the job.

Type: Integer

Required: No

numberOfQueuedThings

The number of things that are awaiting execution of the job.

Type: Integer

Required: No

numberOfRejectedThings

The number of things that rejected the job.

Type: Integer

Required: No

numberOfRemovedThings

The number of things that are no longer scheduled to execute the job because they have been deleted or have been removed from the group that was a target of the job.

Type: Integer

Required: No

numberOfSucceededThings

The number of things which successfully completed the job.

Type: Integer

Required: No

numberOfTimedOutThings

The number of things whose job execution status is TIMED_OUT.

Type: Integer

Required: No

processingTargets

The target devices to which the job execution is being rolled out. This value will be null after the job execution has finished rolling out to all the target devices.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobSummary

Service: AWS IoT

The job summary.

Contents

completedAt

The time, in seconds since the epoch, when the job completed.

Type: Timestamp

Required: No

createdAt

The time, in seconds since the epoch, when the job was created.

Type: Timestamp

Required: No

isConcurrent

Indicates whether a job is concurrent. Will be true when a job is rolling out new job executions or canceling previously created executions, otherwise false.

Type: Boolean

Required: No

jobArn

The job ARN.

Type: String

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job was last updated.

Type: Timestamp

Required: No

status

The job summary status.

Type: String

Valid Values: IN_PROGRESS | CANCELED | COMPLETED | DELETION_IN_PROGRESS

Required: No

targetSelection

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a thing when the thing is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

thingGroupId

The ID of the thing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+\-

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobTemplateSummary

Service: AWS IoT

An object that contains information about the job template.

Contents

createdAt

The time, in seconds since the epoch, when the job template was created.

Type: Timestamp

Required: No

description

A description of the job template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

jobTemplateArn

The ARN of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

Required: No

jobTemplateId

The unique identifier of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KafkaAction

Service: AWS IoT

Send messages to an Amazon Managed Streaming for Apache Kafka (Amazon MSK) or self-managed Apache Kafka cluster.

Contents

clientProperties

Properties of the Apache Kafka producer client.

Type: String to string map

Required: Yes

destinationArn

The ARN of Kafka action's VPC TopicRuleDestination.

Type: String

Required: Yes

key

The Kafka message key.

Type: String

Required: No

partition

The Kafka message partition.

Type: String

Required: No

topic

The Kafka topic for messages to be sent to the Kafka broker.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyPair

Service: AWS IoT

Describes a key pair.

Contents

PrivateKey

The private key.

Type: String

Length Constraints: Minimum length of 1.

Required: No

PublicKey

The public key.

Type: String

Length Constraints: Minimum length of 1.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KinesisAction

Service: AWS IoT

Describes an action to write data to an Amazon Kinesis stream.

Contents

partitionKey

The partition key.

Type: String

Required: No

roleArn

The ARN of the IAM role that grants access to the Amazon Kinesis stream.

Type: String

Required: Yes

streamName

The name of the Amazon Kinesis stream.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LambdaAction

Service: AWS IoT

Describes an action to invoke a Lambda function.

Contents

functionArn

The ARN of the Lambda function.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LocationAction

Service: AWS IoT

The Amazon Location rule action sends device location updates from an MQTT message to an Amazon Location tracker resource.

Contents

deviceId

The unique ID of the device providing the location data.

Type: String

Required: Yes

latitude

A string that evaluates to a double value that represents the latitude of the device's location.

Type: String

Required: Yes

longitude

A string that evaluates to a double value that represents the longitude of the device's location.

Type: String

Required: Yes

roleArn

The IAM role that grants permission to write to the Amazon Location resource.

Type: String

Required: Yes

timestamp

The time that the location data was sampled. The default value is the time the MQTT message was processed.

Type: [LocationTimestamp \(p. 947\)](#) object

Required: No

trackerName

The name of the tracker resource in Amazon Location in which the location is updated.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LocationTimestamp

Service: AWS IoT

Describes how to interpret an application-defined timestamp value from an MQTT message payload and the precision of that value.

Contents

unit

The precision of the timestamp value that results from the expression described in `value`.

Valid values: SECONDS | MILLISECONDS | MICROSECONDS | NANOSECONDS. The default is MILLISECONDS.

Type: String

Required: No

value

An expression that returns a long epoch time value.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LoggingOptionsPayload

Service: AWS IoT

Describes the logging options payload.

Contents

logLevel

The log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LogTarget

Service: AWS IoT

A log target.

Contents

targetName

The target name.

Type: String

Required: No

targetType

The target type.

Type: String

Valid Values: DEFAULT | THING_GROUP | CLIENT_ID | SOURCE_IP | PRINCIPAL_ID

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LogTargetConfiguration

Service: AWS IoT

The target configuration.

Contents

logLevel

The logging level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

logTarget

A log target

Type: [LogTarget \(p. 949\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MachineLearningDetectionConfig

Service: AWS IoT

The configuration of an ML Detect Security Profile.

Contents

confidenceLevel

The sensitivity of anomalous behavior evaluation. Can be Low, Medium, or High.

Type: String

Valid Values: LOW | MEDIUM | HIGH

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ManagedJobTemplateSummary

Service: AWS IoT

An object that contains information about the managed template.

Contents

description

The description for a managed template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

environments

A list of environments that are supported with the managed job template.

Type: Array of strings

Pattern: [^\p{C}]+

Required: No

templateArn

The Amazon Resource Name (ARN) for a managed template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

Required: No

templateName

The unique Name for a managed template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

templateVersion

The version for a managed template.

Type: String

Pattern: ^[1-9]+.[0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricDatum

Service: AWS IoT

A metric.

Contents

timestamp

The time the metric value was reported.

Type: [Timestamp](#)

Required: No

value

The value reported for the metric.

Type: [MetricValue \(p. 957\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricDimension

Service: AWS IoT

The dimension of a metric.

Contents

dimensionName

A unique identifier for the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

operator

Defines how the dimensionValues of a dimension are interpreted. For example, for dimension type TOPIC_FILTER, the IN operator, a message will be counted only if its topic matches one of the topic filters. With NOT_IN operator, a message will be counted only if it doesn't match any of the topic filters. The operator is optional: if it's not provided (is null), it will be interpreted as IN.

Type: String

Valid Values: IN | NOT_IN

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricToRetain

Service: AWS IoT

The metric you want to retain. Dimensions are optional.

Contents

metric

What is measured by the behavior.

Type: String

Required: Yes

metricDimension

The dimension of a metric. This can't be used with custom metrics.

Type: [MetricDimension \(p. 955\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricValue

Service: AWS IoT

The value to be compared with the metric.

Contents

cids

If the comparisonOperator calls for a set of CIDRs, use this to specify that set to be compared with the metric.

Type: Array of strings

Length Constraints: Minimum length of 2. Maximum length of 43.

Pattern: [a-fA-F0-9:\.\.\\/.]+

Required: No

count

If the comparisonOperator calls for a numeric value, use this to specify that numeric value to be compared with the metric.

Type: Long

Valid Range: Minimum value of 0.

Required: No

number

The numeral value of a metric.

Type: Double

Required: No

numbers

The numeral values of a metric.

Type: Array of doubles

Required: No

ports

If the comparisonOperator calls for a set of ports, use this to specify that set to be compared with the metric.

Type: Array of integers

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

strings

The string values of a metric.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MitigationAction

Service: AWS IoT

Describes which changes should be applied as part of a mitigation action.

Contents

actionParams

The set of parameters for this mitigation action. The parameters vary, depending on the kind of action you apply.

Type: [MitigationActionParams \(p. 961\)](#) object

Required: No

id

A unique identifier for the mitigation action.

Type: String

Required: No

name

A user-friendly name for the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

roleArn

The IAM role ARN used to apply this mitigation action.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MitigationActionIdentifier

Service: AWS IoT

Information that identifies a mitigation action. This information is returned by [ListMitigationActions](#).

Contents

actionArn

The IAM role ARN used to apply this mitigation action.

Type: String

Required: No

actionName

The friendly name of the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

creationDate

The date when this mitigation action was created.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MitigationActionParams

Service: AWS IoT

The set of parameters for this mitigation action. You can specify only one type of parameter (in other words, you can apply only one action for each defined mitigation action).

Contents

addThingsToThingGroupParams

Parameters to define a mitigation action that moves devices associated with a certificate to one or more specified thing groups, typically for quarantine.

Type: [AddThingsToThingGroupParams \(p. 817\)](#) object

Required: No

enableIoTLoggingParams

Parameters to define a mitigation action that enables AWS IoT Core logging at a specified level of detail.

Type: [EnableIoTLoggingParams \(p. 898\)](#) object

Required: No

publishFindingToSnsParams

Parameters to define a mitigation action that publishes findings to Amazon Simple Notification Service (Amazon SNS). You can implement your own custom actions in response to the Amazon SNS messages.

Type: [PublishFindingToSnsParams \(p. 983\)](#) object

Required: No

replaceDefaultPolicyVersionParams

Parameters to define a mitigation action that adds a blank policy to restrict permissions.

Type: [ReplaceDefaultPolicyVersionParams \(p. 990\)](#) object

Required: No

updateCACertificateParams

Parameters to define a mitigation action that changes the state of the CA certificate to inactive.

Type: [UpdateCACertificateParams \(p. 1059\)](#) object

Required: No

updateDeviceCertificateParams

Parameters to define a mitigation action that changes the state of the device certificate to inactive.

Type: [UpdateDeviceCertificateParams \(p. 1060\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MqttContext

Service: AWS IoT

Specifies the MQTT context to use for the test authorizer request

Contents

clientId

The value of the clientId key in an MQTT authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: [\s\S]*

Required: No

password

The value of the password key in an MQTT authorization request.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

username

The value of the username key in an MQTT authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: [\s\S]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

NonCompliantResource

Service: AWS IoT

Information about the resource that was noncompliant with the audit check.

Contents

additionalInfo

Other information about the noncompliant resource.

Type: String to string map

Required: No

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: No

resourceType

The type of the noncompliant resource.

Type: String

Valid Values: DEVICE_CERTIFICATE | CA_CERTIFICATE | IOT_POLICY | COGNITO_IDENTITY_POOL | CLIENT_ID | ACCOUNT_SETTINGS | ROLE_ALIAS | IAM_ROLE | ISSUER_CERTIFICATE

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OpenSearchAction

Service: AWS IoT

Describes an action that writes data to an Amazon OpenSearch Service domain.

Contents

endpoint

The endpoint of your OpenSearch domain.

Type: String

Pattern: https?://.*

Required: Yes

id

The unique identifier for the document you are storing.

Type: String

Required: Yes

index

The OpenSearch index where you want to store your data.

Type: String

Required: Yes

roleArn

The IAM role ARN that has access to OpenSearch.

Type: String

Required: Yes

type

The type of document you are storing.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OTAUpdateFile

Service: AWS IoT

Describes a file to be associated with an OTA update.

Contents

attributes

A list of name/attribute pairs.

Type: String to string map

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: [\s\S]*

Required: No

codeSigning

The code signing method of the file.

Type: [CodeSigning \(p. 876\)](#) object

Required: No

fileLocation

The location of the updated firmware.

Type: [FileLocation \(p. 903\)](#) object

Required: No

fileName

The name of the file.

Type: String

Required: No

fileType

An integer value you can include in the job document to allow your devices to identify the type of file received from the cloud.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

fileVersion

The file version.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OTAUpdateInfo

Service: AWS IoT

Information about an OTA update.

Contents

additionalParameters

A collection of name/value pairs

Type: String to string map

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: [\s\S]*

Required: No

awslotJobArn

The AWS IoT job ARN associated with the OTA update.

Type: String

Required: No

awslotJobId

The AWS IoT job ID associated with the OTA update.

Type: String

Required: No

awsJobExecutionsRolloutConfig

Configuration for the rollout of OTA updates.

Type: [AwsJobExecutionsRolloutConfig \(p. 847\)](#) object

Required: No

awsJobPresignedUrlConfig

Configuration information for pre-signed URLs. Valid when protocols contains HTTP.

Type: [AwsJobPresignedUrlConfig \(p. 849\)](#) object

Required: No

creationDate

The date when the OTA update was created.

Type: Timestamp

Required: No

description

A description of the OTA update.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

errorInfo

Error information associated with the OTA update.

Type: [ErrorInfo \(p. 899\)](#) object

Required: No

lastModifiedDate

The date when the OTA update was last updated.

Type: Timestamp

Required: No

otaUpdateArn

The OTA update ARN.

Type: String

Required: No

otaUpdateFiles

A list of files associated with the OTA update.

Type: Array of [OTAUpdateFile \(p. 966\)](#) objects

Array Members: Minimum number of 1 item.

Required: No

otaUpdateId

The OTA update ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

otaUpdateStatus

The status of the OTA update.

Type: String

Valid Values: CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_COMPLETE | CREATE_FAILED

Required: No

protocols

The protocol used to transfer the OTA update image. Valid values are [HTTP], [MQTT], [HTTP, MQTT]. When both HTTP and MQTT are specified, the target device can choose the protocol.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Valid Values: MQTT | HTTP

Required: No

targets

The targets of the OTA update.

Type: Array of strings

Array Members: Minimum number of 1 item.

Required: No

targetSelection

Specifies whether the OTA update will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the OTA update (SNAPSHOT). If continuous, the OTA update may also be run on a thing when a change is detected in a target. For example, an OTA update will run on a thing when the thing is added to a target group, even after the OTA update was completed by all things originally in the group.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OTAUpdateSummary

Service: AWS IoT

An OTA update summary.

Contents

creationDate

The date when the OTA update was created.

Type: Timestamp

Required: No

otaUpdateArn

The OTA update ARN.

Type: String

Required: No

otaUpdateId

The OTA update ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OutgoingCertificate

Service: AWS IoT

A certificate that has been transferred but not yet accepted.

Contents

certificateArn

The certificate ARN.

Type: String

Required: No

certificateId

The certificate ID.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

creationDate

The certificate creation date.

Type: Timestamp

Required: No

transferDate

The date the transfer was initiated.

Type: Timestamp

Required: No

transferMessage

The transfer message.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\s\S]*

Required: No

transferredTo

The AWS account to which the transfer was made.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9] +

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PercentPair

Service: AWS IoT

Describes the percentile and percentile value.

Contents

percent

The percentile.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

value

The value of the percentile.

Type: Double

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Policy

Service: AWS IoT

Describes an AWS IoT policy.

Contents

policyArn

The policy ARN.

Type: String

Required: No

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w+=,.@-]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PolicyVersion

Service: AWS IoT

Describes a policy version.

Contents

createDate

The date and time the policy was created.

Type: Timestamp

Required: No

isDefaultVersion

Specifies whether the policy version is the default.

Type: Boolean

Required: No

versionId

The policy version ID.

Type: String

Pattern: [0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PolicyVersionIdentifier

Service: AWS IoT

Information about the version of the policy associated with the resource.

Contents

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w+=, .@-]+

Required: No

policyVersionId

The ID of the version of the policy associated with the resource.

Type: String

Pattern: [0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PresignedUrlConfig

Service: AWS IoT

Configuration for pre-signed S3 URLs.

Contents

expiresInSec

How long (in seconds) pre-signed URLs are valid. Valid values are 60 - 3600, the default value is 3600 seconds. Pre-signed URLs are generated when Jobs receives an MQTT request for the job document.

Type: Long

Valid Range: Minimum value of 60. Maximum value of 3600.

Required: No

roleArn

The ARN of an IAM role that grants grants permission to download files from the S3 bucket where the job data/updates are stored. The role must also grant permission for IoT to download the files.

Important

For information about addressing the confused deputy problem, see [cross-service confused deputy prevention](#) in the *AWS IoT Core developer guide*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProvisioningHook

Service: AWS IoT

Structure that contains payloadVersion and targetArn.

Contents

payloadVersion

The payload that was sent to the target function.

Note: Only Lambda functions are currently supported.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 32.

Pattern: ^[0-9-]+\$

Required: No

targetArn

The ARN of the target function.

Note: Only Lambda functions are currently supported.

Type: String

Length Constraints: Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProvisioningTemplateSummary

Service: AWS IoT

A summary of information about a provisioning template.

Contents

creationDate

The date when the provisioning template summary was created.

Type: Timestamp

Required: No

description

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [^\p{C}]*

Required: No

enabled

True if the fleet provision template is enabled, otherwise false.

Type: Boolean

Required: No

lastModifiedDate

The date when the provisioning template summary was last modified.

Type: Timestamp

Required: No

templateArn

The ARN of the provisioning template.

Type: String

Required: No

templateName

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: ^[0-9A-Za-z_-]+\$

Required: No

type

The type you define in a provisioning template. You can create a template with only one type. You can't change the template type after its creation. The default value is FLEET_PROVISIONING. For more information about provisioning template, see: [Provisioning template](#).

Type: String

Valid Values: FLEET_PROVISIONING | JITP

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProvisioningTemplateVersionSummary

Service: AWS IoT

A summary of information about a fleet provision template version.

Contents

creationDate

The date when the provisioning template version was created

Type: Timestamp

Required: No

isDefaultVersion

True if the provisioning template version is the default version, otherwise false.

Type: Boolean

Required: No

versionId

The ID of the fleet provisioning template version.

Type: Integer

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PublishFindingToSnsParams

Service: AWS IoT

Parameters to define a mitigation action that publishes findings to Amazon SNS. You can implement your own custom actions in response to the Amazon SNS messages.

Contents

topicArn

The ARN of the topic to which you want to publish the findings.

Type: String

Length Constraints: Maximum length of 350.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutAssetPropertyValueEntry

Service: AWS IoT

An asset property value entry containing the following information.

Contents

assetId

The ID of the AWS IoT SiteWise asset. You must specify either a `propertyAlias` or both an `aliasId` and a `propertyId`. Accepts substitution templates.

Type: String

Required: No

entryId

Optional. A unique identifier for this entry that you can define to better track which message caused an error in case of failure. Accepts substitution templates. Defaults to a new UUID.

Type: String

Required: No

propertyAlias

The name of the property alias associated with your asset property. You must specify either a `propertyAlias` or both an `aliasId` and a `propertyId`. Accepts substitution templates.

Type: String

Length Constraints: Minimum length of 1.

Required: No

propertyId

The ID of the asset's property. You must specify either a `propertyAlias` or both an `aliasId` and a `propertyId`. Accepts substitution templates.

Type: String

Required: No

propertyValues

A list of property values to insert that each contain timestamp, quality, and value (TQV) information.

Type: Array of [AssetPropertyValue \(p. 822\)](#) objects

Array Members: Minimum number of 1 item.

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 Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutItemInput

Service: AWS IoT

The input for the DynamoActionVS action that specifies the DynamoDB table to which the message data will be written.

Contents

tableName

The table where the message data will be written.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RateIncreaseCriteria

Service: AWS IoT

Allows you to define a criteria to initiate the increase in rate of rollout for a job.

Contents

numberOfNotifiedThings

The threshold for number of notified things that will initiate the increase in rate of rollout.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

numberOfSucceededThings

The threshold for number of succeeded things that will initiate the increase in rate of rollout.

Type: Integer

Valid Range: Minimum value of 1.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RegistrationConfig

Service: AWS IoT

The registration configuration.

Contents

roleArn

The ARN of the role.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

templateBody

The template body.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

Required: No

templateName

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RelatedResource

Service: AWS IoT

Information about a related resource.

Contents

additionalInfo

Other information about the resource.

Type: String to string map

Required: No

resourceIdentifier

Information that identifies the resource.

Type: [ResourceIdentifier \(p. 992\)](#) object

Required: No

resourceType

The type of resource.

Type: String

Valid Values: DEVICE_CERTIFICATE | CA_CERTIFICATE | IOT_POLICY | COGNITO_IDENTITY_POOL | CLIENT_ID | ACCOUNT_SETTINGS | ROLE_ALIAS | IAM_ROLE | ISSUER_CERTIFICATE

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ReplaceDefaultPolicyVersionParams

Service: AWS IoT

Parameters to define a mitigation action that adds a blank policy to restrict permissions.

Contents

templateName

The name of the template to be applied. The only supported value is BLANK_POLICY.

Type: String

Valid Values: BLANK_POLICY

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RepublishAction

Service: AWS IoT

Describes an action to republish to another topic.

Contents

qos

The Quality of Service (QoS) level to use when republishing messages. The default value is 0.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

topic

The name of the MQTT topic.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Resourcelentifier

Service: AWS IoT

Information that identifies the noncompliant resource.

Contents

account

The account with which the resource is associated.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: No

caCertificateId

The ID of the CA certificate used to authorize the certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

clientId

The client ID.

Type: String

Required: No

cognitoIdentityPoolId

The ID of the Amazon Cognito identity pool.

Type: String

Required: No

deviceCertificateArn

The ARN of the identified device certificate.

Type: String

Required: No

deviceCertificateId

The ID of the certificate attached to the resource.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

iamRoleArn

The ARN of the IAM role that has overly permissive actions.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

issuerCertificateIdentifier

The issuer certificate identifier.

Type: [IssuerCertificateIdentifier \(p. 921\)](#) object

Required: No

policyVersionIdentifier

The version of the policy associated with the resource.

Type: [PolicyVersionIdentifier \(p. 977\)](#) object

Required: No

roleAliasArn

The ARN of the role alias that has overly permissive actions.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RetryCriteria

Service: AWS IoT

The criteria that determines how many retries are allowed for each failure type for a job.

Contents

failureType

The type of job execution failures that can initiate a job retry.

Type: String

Valid Values: FAILED | TIMED_OUT | ALL

Required: Yes

numberOfRetries

The number of retries allowed for a failure type for the job.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RoleAliasDescription

Service: AWS IoT

Role alias description.

Contents

creationDate

The UNIX timestamp of when the role alias was created.

Type: Timestamp

Required: No

credentialDurationSeconds

The number of seconds for which the credential is valid.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

lastModifiedDate

The UNIX timestamp of when the role alias was last modified.

Type: Timestamp

Required: No

owner

The role alias owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: No

roleAlias

The role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w=,@-]+

Required: No

roleAliasArn

The ARN of the role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

roleArn

The role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Action

Service: AWS IoT

Describes an action to write data to an Amazon S3 bucket.

Contents

bucketName

The Amazon S3 bucket.

Type: String

Required: Yes

cannedAcl

The Amazon S3 canned ACL that controls access to the object identified by the object key. For more information, see [S3 canned ACLs](#).

Type: String

Valid Values: private | public-read | public-read-write | aws-exec-read | authenticated-read | bucket-owner-read | bucket-owner-full-control | log-delivery-write

Required: No

key

The object key. For more information, see [Actions, resources, and condition keys for Amazon S3](#).

Type: String

Required: Yes

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Destination

Service: AWS IoT

Describes the location of updated firmware in S3.

Contents

bucket

The S3 bucket that contains the updated firmware.

Type: String

Length Constraints: Minimum length of 1.

Required: No

prefix

The S3 prefix.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Location

Service: AWS IoT

The S3 location.

Contents

bucket

The S3 bucket.

Type: String

Length Constraints: Minimum length of 1.

Required: No

key

The S3 key.

Type: String

Length Constraints: Minimum length of 1.

Required: No

version

The S3 bucket version.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SalesforceAction

Service: AWS IoT

Describes an action to write a message to a Salesforce IoT Cloud Input Stream.

Contents

token

The token used to authenticate access to the Salesforce IoT Cloud Input Stream. The token is available from the Salesforce IoT Cloud platform after creation of the Input Stream.

Type: String

Length Constraints: Minimum length of 40.

Required: Yes

url

The URL exposed by the Salesforce IoT Cloud Input Stream. The URL is available from the Salesforce IoT Cloud platform after creation of the Input Stream.

Type: String

Length Constraints: Maximum length of 2000.

Pattern: `https://ingestion-[a-zA-Z0-9]{1,12}\.[a-zA-Z0-9]+\.(sfdc-matrix\.net)|(sfdcnow\.com))/streams/\w{1,20}/\w{1,20}/event`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScheduledAuditMetadata

Service: AWS IoT

Information about the scheduled audit.

Contents

dayOfMonth

The day of the month on which the scheduled audit is run (if the frequency is "MONTHLY"). If days 29-31 are specified, and the month does not have that many days, the audit takes place on the "LAST" day of the month.

Type: String

Pattern: ^([1-9] | [12][0-9] | 3[01])\$ | ^LAST\$

Required: No

dayOfWeek

The day of the week on which the scheduled audit is run (if the frequency is "WEEKLY" or "BIWEEKLY").

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

Required: No

frequency

How often the scheduled audit occurs.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

Required: No

scheduledAuditArn

The ARN of the scheduled audit.

Type: String

Required: No

scheduledAuditName

The name of the scheduled audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecurityProfileIdentifier

Service: AWS IoT

Identifying information for a Device Defender security profile.

Contents

arn

The ARN of the security profile.

Type: String

Required: Yes

name

The name you've given to the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecurityProfileTarget

Service: AWS IoT

A target to which an alert is sent when a security profile behavior is violated.

Contents

arn

The ARN of the security profile.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecurityProfileTargetMapping

Service: AWS IoT

Information about a security profile and the target associated with it.

Contents

securityProfileIdentifier

Information that identifies the security profile.

Type: [SecurityProfileIdentifier \(p. 1003\)](#) object

Required: No

target

Information about the target (thing group) associated with the security profile.

Type: [SecurityProfileTarget \(p. 1004\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ServerCertificateSummary

Service: AWS IoT

An object that contains information about a server certificate.

Contents

serverCertificateArn

The ARN of the server certificate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `arn:aws(-cn|us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+`

Required: No

serverCertificateStatus

The status of the server certificate.

Type: String

Valid Values: INVALID | VALID

Required: No

serverCertificateStatusDetail

Details that explain the status of the server certificate.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SigningProfileParameter

Service: AWS IoT

Describes the code-signing profile.

Contents

certificateArn

Certificate ARN.

Type: String

Required: No

certificatePathOnDevice

The location of the code-signing certificate on your device.

Type: String

Required: No

platform

The hardware platform of your device.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SigV4Authorization

Service: AWS IoT

For more information, see [Signature Version 4 signing process](#).

Contents

roleArn

The ARN of the signing role.

Type: String

Required: Yes

serviceName

The service name to use while signing with Sig V4.

Type: String

Required: Yes

signingRegion

The signing region.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SnsAction

Service: AWS IoT

Describes an action to publish to an Amazon SNS topic.

Contents

messageFormat

(Optional) The message format of the message to publish. Accepted values are "JSON" and "RAW". The default value of the attribute is "RAW". SNS uses this setting to determine if the payload should be parsed and relevant platform-specific bits of the payload should be extracted. To read more about SNS message formats, see <https://docs.aws.amazon.com/sns/latest/dg/json-formats.html> refer to their official documentation.

Type: String

Valid Values: RAW | JSON

Required: No

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

targetArn

The ARN of the SNS topic.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SqsAction

Service: AWS IoT

Describes an action to publish data to an Amazon SQS queue.

Contents

queueUrl

The URL of the Amazon SQS queue.

Type: String

Required: Yes

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

useBase64

Specifies whether to use Base64 encoding.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StartSigningJobParameter

Service: AWS IoT

Information required to start a signing job.

Contents

destination

The location to write the code-signed file.

Type: [Destination \(p. 882\)](#) object

Required: No

signingProfileName

The code-signing profile name.

Type: String

Required: No

signingProfileParameter

Describes the code-signing profile.

Type: [SigningProfileParameter \(p. 1007\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StatisticalThreshold

Service: AWS IoT

A statistical ranking (percentile) that indicates a threshold value by which a behavior is determined to be in compliance or in violation of the behavior.

Contents

statistic

The percentile that resolves to a threshold value by which compliance with a behavior is determined. Metrics are collected over the specified period (durationSeconds) from all reporting devices in your account and statistical ranks are calculated. Then, the measurements from a device are collected over the same period. If the accumulated measurements from the device fall above or below (comparisonOperator) the value associated with the percentile specified, then the device is considered to be in compliance with the behavior, otherwise a violation occurs.

Type: String

Pattern: (p0|p0\.1|p0\.01|p1|p10|p50|p90|p99|p99\.9|p99\.99|p100)

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Statistics

Service: AWS IoT

A map of key-value pairs for all supported statistics. For issues with missing or unexpected values for this API, consult [Fleet indexing troubleshooting guide](#).

Contents

average

The average of the aggregated field values.

Type: Double

Required: No

count

The count of things that match the query string criteria and contain a valid aggregation field value.

Type: Integer

Required: No

maximum

The maximum aggregated field value.

Type: Double

Required: No

minimum

The minimum aggregated field value.

Type: Double

Required: No

stdDeviation

The standard deviation of the aggregated field values.

Type: Double

Required: No

sum

The sum of the aggregated field values.

Type: Double

Required: No

sumOfSquares

The sum of the squares of the aggregated field values.

Type: Double

Required: No

variance

The variance of the aggregated field values.

Type: Double

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StepFunctionsAction

Service: AWS IoT

Starts execution of a Step Functions state machine.

Contents

executionNamePrefix

(Optional) A name will be given to the state machine execution consisting of this prefix followed by a UUID. Step Functions automatically creates a unique name for each state machine execution if one is not provided.

Type: String

Required: No

roleArn

The ARN of the role that grants IoT permission to start execution of a state machine ("Action":"states:StartExecution").

Type: String

Required: Yes

stateMachineName

The name of the Step Functions state machine whose execution will be started.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Stream

Service: AWS IoT

Describes a group of files that can be streamed.

Contents

fileId

The ID of a file associated with a stream.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamFile

Service: AWS IoT

Represents a file to stream.

Contents

fileId

The file ID.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

s3Location

The location of the file in S3.

Type: [S3Location \(p. 999\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamInfo

Service: AWS IoT

Information about a stream.

Contents

createdAt

The date when the stream was created.

Type: Timestamp

Required: No

description

The description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

files

The files to stream.

Type: Array of [StreamFile \(p. 1017\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

lastUpdatedAt

The date when the stream was last updated.

Type: Timestamp

Required: No

roleArn

An IAM role AWS IoT assumes to access your S3 files.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

streamArn

The stream ARN.

Type: String

Required: No

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

streamVersion

The stream version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamSummary

Service: AWS IoT

A summary of a stream.

Contents

description

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

streamArn

The stream ARN.

Type: String

Required: No

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

streamVersion

The stream version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: AWS IoT

A set of key/value pairs that are used to manage the resource.

Contents

Key

The tag's key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: ^([\\p{L}\\p{Z}]\\p{N}_.:/=+\\-@]*\$

Required: Yes

Value

The tag's value.

Type: String

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TaskStatistics

Service: AWS IoT

Statistics for the checks performed during the audit.

Contents

canceledChecks

The number of checks that did not run because the audit was canceled.

Type: Integer

Required: No

compliantChecks

The number of checks that found compliant resources.

Type: Integer

Required: No

failedChecks

The number of checks.

Type: Integer

Required: No

inProgressChecks

The number of checks in progress.

Type: Integer

Required: No

nonCompliantChecks

The number of checks that found noncompliant resources.

Type: Integer

Required: No

totalChecks

The number of checks in this audit.

Type: Integer

Required: No

waitingForDataCollectionChecks

The number of checks waiting for data collection.

Type: Integer

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TaskStatisticsForAuditCheck

Service: AWS IoT

Provides summary counts of how many tasks for findings are in a particular state. This information is included in the response from `DescribeAuditMitigationActionsTask`.

Contents

canceledFindingsCount

The number of findings to which the mitigation action task was canceled when applied.

Type: Long

Required: No

failedFindingsCount

The number of findings for which at least one of the actions failed when applied.

Type: Long

Required: No

skippedFindingsCount

The number of findings skipped because of filter conditions provided in the parameters to the command.

Type: Long

Required: No

succeededFindingsCount

The number of findings for which all mitigation actions succeeded when applied.

Type: Long

Required: No

totalFindingsCount

The total number of findings to which a task is being applied.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TermsAggregation

Service: AWS IoT

Performs an aggregation that will return a list of buckets. The list of buckets is a ranked list of the number of occurrences of an aggregation field value.

Contents

maxBuckets

The number of buckets to return in the response. Default to 10.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingAttribute

Service: AWS IoT

The properties of the thing, including thing name, thing type name, and a list of thing attributes.

Contents

attributes

A list of thing attributes which are name-value pairs.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.@/:#-]*

Required: No

thingArn

The thing ARN.

Type: String

Required: No

thingName

The name of the thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeName

The name of the thing type, if the thing has been associated with a type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

version

The version of the thing record in the registry.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingConnectivity

Service: AWS IoT

The connectivity status of the thing.

Contents

connected

True if the thing is connected to the AWS IoT Core service; false if it is not connected.

Type: Boolean

Required: No

disconnectReason

The reason why the client is disconnected. If the thing has been disconnected for approximately an hour, the disconnectReason value might be missing.

Type: String

Required: No

timestamp

The epoch time (in milliseconds) when the thing last connected or disconnected. If the thing has been disconnected for approximately an hour, the time value might be missing.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingDocument

Service: AWS IoT

The thing search index document.

Contents

attributes

The attributes.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.@/:#-]*

Required: No

connectivity

Indicates whether the thing is connected to the AWS IoT Core service.

Type: [ThingConnectivity \(p. 1028\)](#) object

Required: No

deviceDefender

Contains Device Defender data.

For more information about Device Defender, see [Device Defender](#).

Type: String

Required: No

shadow

The unnamed shadow and named shadow.

For more information about shadows, see [AWS IoT Device Shadow service](#).

Type: String

Required: No

thingGroupNames

Thing group names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingId

The thing ID.

Type: String

Required: No

thingName

The thing name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeName

The thing type name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupDocument

Service: AWS IoT

The thing group search index document.

Contents

attributes

The thing group attributes.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.@/:#-]*

Required: No

parentGroupNames

Parent group names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingGroupDescription

The thing group description.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [\p{Graph}\x20]*

Required: No

thingGroupId

The thing group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

thingGroupName

The thing group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupIndexingConfiguration

Service: AWS IoT

Thing group indexing configuration.

Contents

customFields

A list of thing group fields to index. This list cannot contain any managed fields. Use the GetIndexingConfiguration API to get a list of managed fields.

Contains custom field names and their data type.

Type: Array of [Field \(p. 902\)](#) objects

Required: No

managedFields

Contains fields that are indexed and whose types are already known by the Fleet Indexing service. This is an optional field. For more information, see [Managed fields](#) in the *AWS IoT Core Developer Guide*.

Type: Array of [Field \(p. 902\)](#) objects

Required: No

thingGroupIndexingMode

Thing group indexing mode.

Type: String

Valid Values: OFF | ON

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupMetadata

Service: AWS IoT

Thing group metadata.

Contents

creationDate

The UNIX timestamp of when the thing group was created.

Type: Timestamp

Required: No

parentGroupName

The parent thing group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

rootToParentThingGroups

The root parent thing group.

Type: Array of [GroupNameAndArn \(p. 906\)](#) objects

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupProperties

Service: AWS IoT

Thing group properties.

Contents

attributePayload

The thing group attributes in JSON format.

Type: [AttributePayload \(p. 824\)](#) object

Required: No

thingGroupDescription

The thing group description.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [\p{Graph}\x20]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingIndexingConfiguration

Service: AWS IoT

The thing indexing configuration. For more information, see [Managing Thing Indexing](#).

Contents

customFields

Contains custom field names and their data type.

Type: Array of [Field \(p. 902\)](#) objects

Required: No

deviceDefenderIndexingMode

Device Defender indexing mode. Valid values are:

- VIOLATIONS – Your thing index contains Device Defender violations. To enable Device Defender indexing, `deviceDefenderIndexingMode` must not be set to OFF.
- OFF - Device Defender indexing is disabled.

For more information about Device Defender violations, see [Device Defender Detect](#).

Type: String

Valid Values: OFF | VIOLATIONS

Required: No

filter

Provides additional filters for specific data sources. Named shadow is the only data source that currently supports and requires a filter. To add named shadows to your fleet indexing configuration, set `namedShadowIndexingMode` to be ON and specify your shadow names in `filter`.

Type: [IndexingFilter \(p. 916\)](#) object

Required: No

managedFields

Contains fields that are indexed and whose types are already known by the Fleet Indexing service.

Type: Array of [Field \(p. 902\)](#) objects

Required: No

namedShadowIndexingMode

Named shadow indexing mode. Valid values are:

- ON – Your thing index contains named shadow. To enable thing named shadow indexing, `namedShadowIndexingMode` must not be set to OFF.
- OFF - Named shadow indexing is disabled.

For more information about Shadows, see [AWS IoT Device Shadow service](#).

Type: String

Valid Values: OFF | ON

Required: No

thingConnectivityIndexingMode

Thing connectivity indexing mode. Valid values are:

- STATUS – Your thing index contains connectivity status. To enable thing connectivity indexing, *thingIndexMode* must not be set to OFF.
- OFF - Thing connectivity status indexing is disabled.

Type: String

Valid Values: OFF | STATUS

Required: No

thingIndexingMode

Thing indexing mode. Valid values are:

- REGISTRY – Your thing index contains registry data only.
- REGISTRY_AND_SHADOW - Your thing index contains registry and shadow data.
- OFF - Thing indexing is disabled.

Type: String

Valid Values: OFF | REGISTRY | REGISTRY_AND_SHADOW

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingTypeDefinition

Service: AWS IoT

The definition of the thing type, including thing type name and description.

Contents

thingTypeArn

The thing type ARN.

Type: String

Required: No

thingTypeMetadata

The ThingTypeMetadata contains additional information about the thing type including: creation date and time, a value indicating whether the thing type is deprecated, and a date and time when it was deprecated.

Type: [ThingTypeMetadata \(p. 1039\)](#) object

Required: No

thingTypeName

The name of the thing type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeProperties

The ThingTypeProperties for the thing type.

Type: [ThingTypeProperties \(p. 1040\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingTypeMetadata

Service: AWS IoT

The ThingTypeMetadata contains additional information about the thing type including: creation date and time, a value indicating whether the thing type is deprecated, and a date and time when time was deprecated.

Contents

creationDate

The date and time when the thing type was created.

Type: Timestamp

Required: No

deprecated

Whether the thing type is deprecated. If **true**, no new things could be associated with this type.

Type: Boolean

Required: No

deprecationDate

The date and time when the thing type was deprecated.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingTypeProperties

Service: AWS IoT

The ThingTypeProperties contains information about the thing type including: a thing type description, and a list of searchable thing attribute names.

Contents

searchableAttributes

A list of searchable thing attribute names.

Type: Array of strings

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_.@/:#-]+

Required: No

thingTypeDescription

The description of the thing type.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [\p{Graph}\x20]*

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimeoutConfig

Service: AWS IoT

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Contents

inProgressTimeoutInMinutes

Specifies the amount of time, in minutes, this device has to finish execution of this job. The timeout interval can be anywhere between 1 minute and 7 days (1 to 10080 minutes). The in progress timer can't be updated and will apply to all job executions for the job. Whenever a job execution remains in the IN_PROGRESS status for longer than this interval, the job execution will fail and switch to the terminal TIMED_OUT status.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimestreamAction

Service: AWS IoT

The Timestream rule action writes attributes (measures) from an MQTT message into an Amazon Timestream table. For more information, see the [Timestream](#) topic rule action documentation.

Contents

databaseName

The name of an Amazon Timestream database.

Type: String

Required: Yes

dimensions

Metadata attributes of the time series that are written in each measure record.

Type: Array of [TimestreamDimension \(p. 1044\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 128 items.

Required: Yes

roleArn

The ARN of the role that grants permission to write to the Amazon Timestream database table.

Type: String

Required: Yes

tableName

The name of the database table into which to write the measure records.

Type: String

Required: Yes

timestamp

Specifies an application-defined value to replace the default value assigned to the Timestream record's timestamp in the time column.

You can use this property to specify the value and the precision of the Timestream record's timestamp. You can specify a value from the message payload or a value computed by a substitution template.

If omitted, the topic rule action assigns the timestamp, in milliseconds, at the time it processed the rule.

Type: [TimestreamTimestamp \(p. 1045\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimestreamDimension

Service: AWS IoT

Metadata attributes of the time series that are written in each measure record.

Contents

name

The metadata dimension name. This is the name of the column in the Amazon Timestream database table record.

Dimensions cannot be named: `measure_name`, `measure_value`, or `time`. These names are reserved. Dimension names cannot start with `ts_` or `measure_value` and they cannot contain the colon (`:`) character.

Type: String

Required: Yes

value

The value to write in this column of the database record.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimestreamTimestamp

Service: AWS IoT

Describes how to interpret an application-defined timestamp value from an MQTT message payload and the precision of that value.

Contents

unit

The precision of the timestamp value that results from the expression described in `value`.

Valid values: SECONDS | MILLISECONDS | MICROSECONDS | NANOSECONDS. The default is MILLISECONDS.

Type: String

Required: Yes

value

An expression that returns a long epoch time value.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TlsContext

Service: AWS IoT

Specifies the TLS context to use for the test authorizer request.

Contents

serverName

The value of the `serverName` key in a TLS authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `[\s\S]*`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRule

Service: AWS IoT

Describes a rule.

Contents

actions

The actions associated with the rule.

Type: Array of [Action \(p. 811\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

awslotSqlVersion

The version of the SQL rules engine to use when evaluating the rule.

Type: String

Required: No

createdAt

The date and time the rule was created.

Type: Timestamp

Required: No

description

The description of the rule.

Type: String

Required: No

errorAction

The action to perform when an error occurs.

Type: [Action \(p. 811\)](#) object

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: ^[a-zA-Z0-9_]+\$

Required: No

sql

The SQL statement used to query the topic. When using a SQL query with multiple lines, be sure to escape the newline characters.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleDestination

Service: AWS IoT

A topic rule destination.

Contents

arn

The topic rule destination URL.

Type: String

Required: No

createdAt

The date and time when the topic rule destination was created.

Type: Timestamp

Required: No

httpUrlProperties

Properties of the HTTP URL.

Type: [HttpUrlDestinationProperties \(p. 913\)](#) object

Required: No

lastUpdatedAt

The date and time when the topic rule destination was last updated.

Type: Timestamp

Required: No

status

The status of the topic rule destination. Valid values are:

IN_PROGRESS

A topic rule destination was created but has not been confirmed. You can set status to IN_PROGRESS by calling `UpdateTopicRuleDestination`. Calling `UpdateTopicRuleDestination` causes a new confirmation challenge to be sent to your confirmation endpoint.

ENABLED

Confirmation was completed, and traffic to this destination is allowed. You can set status to DISABLED by calling `UpdateTopicRuleDestination`.

DISABLED

Confirmation was completed, and traffic to this destination is not allowed. You can set status to ENABLED by calling `UpdateTopicRuleDestination`.

ERROR

Confirmation could not be completed, for example if the confirmation timed out. You can call `GetTopicRuleDestination` for details about the error. You can set status to IN_PROGRESS

by calling `UpdateTopicRuleDestination`. Calling `UpdateTopicRuleDestination` causes a new confirmation challenge to be sent to your confirmation endpoint.

Type: String

Valid Values: ENABLED | IN_PROGRESS | DISABLED | ERROR | DELETING

Required: No

statusReason

Additional details or reason why the topic rule destination is in the current status.

Type: String

Required: No

vpcProperties

Properties of the virtual private cloud (VPC) connection.

Type: [VpcDestinationProperties \(p. 1067\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleDestinationConfiguration

Service: AWS IoT

Configuration of the topic rule destination.

Contents

httpUrlConfiguration

Configuration of the HTTP URL.

Type: [HttpUrlDestinationConfiguration \(p. 912\)](#) object

Required: No

vpcConfiguration

Configuration of the virtual private cloud (VPC) connection.

Type: [VpcDestinationConfiguration \(p. 1066\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleDestinationSummary

Service: AWS IoT

Information about the topic rule destination.

Contents

arn

The topic rule destination ARN.

Type: String

Required: No

createdAt

The date and time when the topic rule destination was created.

Type: Timestamp

Required: No

httpUrlSummary

Information about the HTTP URL.

Type: [HttpUrlDestinationSummary \(p. 914\)](#) object

Required: No

lastUpdatedAt

The date and time when the topic rule destination was last updated.

Type: Timestamp

Required: No

status

The status of the topic rule destination. Valid values are:

IN_PROGRESS

A topic rule destination was created but has not been confirmed. You can set status to IN_PROGRESS by calling `UpdateTopicRuleDestination`. Calling `UpdateTopicRuleDestination` causes a new confirmation challenge to be sent to your confirmation endpoint.

ENABLED

Confirmation was completed, and traffic to this destination is allowed. You can set status to DISABLED by calling `UpdateTopicRuleDestination`.

DISABLED

Confirmation was completed, and traffic to this destination is not allowed. You can set status to ENABLED by calling `UpdateTopicRuleDestination`.

ERROR

Confirmation could not be completed, for example if the confirmation timed out. You can call `GetTopicRuleDestination` for details about the error. You can set status to IN_PROGRESS

by calling `UpdateTopicRuleDestination`. Calling `UpdateTopicRuleDestination` causes a new confirmation challenge to be sent to your confirmation endpoint.

Type: String

Valid Values: ENABLED | IN_PROGRESS | DISABLED | ERROR | DELETING

Required: No

statusReason

The reason the topic rule destination is in the current status.

Type: String

Required: No

vpcDestinationSummary

Information about the virtual private cloud (VPC) connection.

Type: [VpcDestinationSummary \(p. 1068\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleListItem

Service: AWS IoT

Describes a rule.

Contents

createdAt

The date and time the rule was created.

Type: Timestamp

Required: No

ruleArn

The rule ARN.

Type: String

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: ^[a-zA-Z0-9_]+\$

Required: No

topicPattern

The pattern for the topic names that apply.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRulePayload

Service: AWS IoT

Describes a rule.

Contents

actions

The actions associated with the rule.

Type: Array of [Action \(p. 811\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

awslotSqlVersion

The version of the SQL rules engine to use when evaluating the rule.

Type: String

Required: No

description

The description of the rule.

Type: String

Required: No

errorAction

The action to take when an error occurs.

Type: [Action \(p. 811\)](#) object

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

sql

The SQL statement used to query the topic. For more information, see [AWS IoT SQL Reference](#) in the [AWS IoT Developer Guide](#).

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TransferData

Service: AWS IoT

Data used to transfer a certificate to an AWS account.

Contents

acceptDate

The date the transfer was accepted.

Type: Timestamp

Required: No

rejectDate

The date the transfer was rejected.

Type: Timestamp

Required: No

rejectReason

The reason why the transfer was rejected.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\\s\\S]*

Required: No

transferDate

The date the transfer took place.

Type: Timestamp

Required: No

transferMessage

The transfer message.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [\\s\\S]*

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 Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateCACertificateParams

Service: AWS IoT

Parameters to define a mitigation action that changes the state of the CA certificate to inactive.

Contents

action

The action that you want to apply to the CA certificate. The only supported value is DEACTIVATE.

Type: String

Valid Values: DEACTIVATE

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateDeviceCertificateParams

Service: AWS IoT

Parameters to define a mitigation action that changes the state of the device certificate to inactive.

Contents

action

The action that you want to apply to the device certificate. The only supported value is DEACTIVATE.

Type: String

Valid Values: DEACTIVATE

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValidationError

Service: AWS IoT

Information about an error found in a behavior specification.

Contents

errorMessage

The description of an error found in the behaviors.

Type: String

Length Constraints: Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViolationEvent

Service: AWS IoT

Information about a Device Defender security profile behavior violation.

Contents

behavior

The behavior that was violated.

Type: [Behavior \(p. 852\)](#) object

Required: No

metricValue

The value of the metric (the measurement).

Type: [MetricValue \(p. 957\)](#) object

Required: No

securityProfileName

The name of the security profile whose behavior was violated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingName

The name of the thing responsible for the violation event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

verificationState

The verification state of the violation (detect alarm).

Type: String

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Required: No

verificationStateDescription

The description of the verification state of the violation.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [^\p{Cntrl}]*

Required: No

violationEventAdditionalInfo

The details of a violation event.

Type: [ViolationEventAdditionalInfo \(p. 1064\)](#) object

Required: No

violationEventTime

The time the violation event occurred.

Type: Timestamp

Required: No

violationEventType

The type of violation event.

Type: String

Valid Values: `in-alarm` | `alarm-cleared` | `alarm-invalidated`

Required: No

violationId

The ID of the violation event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9\-_]+\.`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViolationEventAdditionalInfo

Service: AWS IoT

The details of a violation event.

Contents

confidenceLevel

The sensitivity of anomalous behavior evaluation. Can be Low, Medium, or High.

Type: String

Valid Values: LOW | MEDIUM | HIGH

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViolationEventOccurrenceRange

Service: AWS IoT

Specifies the time period of which violation events occurred between.

Contents

endTime

The end date and time of a time period in which violation events occurred.

Type: Timestamp

Required: Yes

startTime

The start date and time of a time period in which violation events occurred.

Type: Timestamp

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VpcDestinationConfiguration

Service: AWS IoT

The configuration information for a virtual private cloud (VPC) destination.

Contents

roleArn

The ARN of a role that has permission to create and attach to elastic network interfaces (ENIs).

Type: String

Required: Yes

securityGroups

The security groups of the VPC destination.

Type: Array of strings

Required: No

subnetIds

The subnet IDs of the VPC destination.

Type: Array of strings

Required: Yes

vpcId

The ID of the VPC.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VpcDestinationProperties

Service: AWS IoT

The properties of a virtual private cloud (VPC) destination.

Contents

roleArn

The ARN of a role that has permission to create and attach to elastic network interfaces (ENIs).

Type: String

Required: No

securityGroups

The security groups of the VPC destination.

Type: Array of strings

Required: No

subnetIds

The subnet IDs of the VPC destination.

Type: Array of strings

Required: No

vpcId

The ID of the VPC.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VpcDestinationSummary

Service: AWS IoT

The summary of a virtual private cloud (VPC) destination.

Contents

roleArn

The ARN of a role that has permission to create and attach to elastic network interfaces (ENIs).

Type: String

Required: No

securityGroups

The security groups of the VPC destination.

Type: Array of strings

Required: No

subnetIds

The subnet IDs of the VPC destination.

Type: Array of strings

Required: No

vpcId

The ID of the VPC.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT data

The following data types are supported by AWS IoT data:

- [RetainedMessageSummary \(p. 1069\)](#)

RetainedMessageSummary

Service: AWS IoT data

Information about a single retained message.

Contents

lastModifiedTime

The Epoch date and time, in milliseconds, when the retained message was stored by AWS IoT.

Type: Long

Required: No

payloadSize

The size of the retained message's payload in bytes.

Type: Long

Required: No

qos

The quality of service (QoS) level used to publish the retained message.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

topic

The topic name to which the retained message was published.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT jobs data

The following data types are supported by AWS IoT jobs data:

- [JobExecution \(p. 1071\)](#)
- [JobExecutionState \(p. 1074\)](#)
- [JobExecutionSummary \(p. 1075\)](#)

JobExecution

Service: AWS IoT jobs data

Contains data about a job execution.

Contents

approximateSecondsBeforeTimedOut

The estimated number of seconds that remain before the job execution status will be changed to TIMED_OUT. The actual job execution timeout can occur up to 60 seconds later than the estimated duration.

Type: Long

Required: No

executionNumber

A number that identifies a particular job execution on a particular device. It can be used later in commands that return or update job execution information.

Type: Long

Required: No

jobDocument

The content of the job document.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Long

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was enqueued.

Type: Long

Required: No

startedAt

The time, in seconds since the epoch, when the job execution was started.

Type: Long

Required: No

status

The status of the job execution. Can be one of: "QUEUED", "IN_PROGRESS", "FAILED", "SUCCESS", "CANCELED", "TIMED_OUT", "REJECTED", or "REMOVED".

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

thingName

The name of the thing that is executing the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time they are updated by a device.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionState

Service: AWS IoT jobs data

Contains data about the state of a job execution.

Contents

status

The status of the job execution. Can be one of: "QUEUED", "IN_PROGRESS", "FAILED", "SUCCESS", "CANCELED", "TIMED_OUT", "REJECTED", or "REMOVED".

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time they are updated by a device.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummary

Service: AWS IoT jobs data

Contains a subset of information about a job execution.

Contents

executionNumber

A number that identifies a particular job execution on a particular device.

Type: Long

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Long

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was enqueued.

Type: Long

Required: No

startedAt

The time, in seconds since the epoch, when the job execution started.

Type: Long

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time AWS IoT Jobs receives an update from a device.

Type: Long

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Core Device Advisor

The following data types are supported by AWS IoT Core Device Advisor:

- [DeviceUnderTest \(p. 1077\)](#)
- [GroupResult \(p. 1078\)](#)
- [SuiteDefinitionConfiguration \(p. 1079\)](#)
- [SuiteDefinitionInformation \(p. 1081\)](#)
- [SuiteRunConfiguration \(p. 1083\)](#)
- [SuiteRunInformation \(p. 1084\)](#)
- [TestCaseRun \(p. 1086\)](#)
- [TestResult \(p. 1088\)](#)

DeviceUnderTest

Service: AWS IoT Core Device Advisor

Information of a test device. A thing ARN or a certificate ARN is required.

Contents

certificateArn

Lists devices certificate ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

thingArn

Lists devices thing ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

GroupResult

Service: AWS IoT Core Device Advisor

Show Group Result.

Contents

groupId

Group result ID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

groupName

Group Result Name.

Type: String

Required: No

tests

Tests under Group Result.

Type: Array of [TestCaseRun \(p. 1086\)](#) objects

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteDefinitionConfiguration

Service: AWS IoT Core Device Advisor

Gets Suite Definition Configuration.

Contents

devicePermissionRoleArn

Gets the device permission ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

devices

Gets the devices configured.

Type: Array of [DeviceUnderTest \(p. 1077\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

intendedForQualification

Gets the tests intended for qualification in a suite.

Type: Boolean

Required: No

rootGroup

Gets test suite root group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

suiteDefinitionName

Gets Suite Definition Configuration name.

Type: String

Length Constraints: Minimum length of 1. 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 Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteDefinitionInformation

Service: AWS IoT Core Device Advisor

Information about the suite definition.

Contents

createdAt

Date (in Unix epoch time) when the test suite was created.

Type: Timestamp

Required: No

defaultDevices

Specifies the devices that are under test for the test suite.

Type: Array of [DeviceUnderTest \(p. 1077\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

intendedForQualification

Specifies if the test suite is intended for qualification.

Type: Boolean

Required: No

suiteDefinitionId

Suite definition ID of the test suite.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

suiteDefinitionName

Suite name of the test suite.

Type: String

Length Constraints: Minimum length of 1. 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteRunConfiguration

Service: AWS IoT Core Device Advisor

Gets suite run configuration.

Contents

parallelRun

TRUE if multiple test suites run in parallel.

Type: Boolean

Required: No

primaryDevice

Gets the primary device for suite run.

Type: [DeviceUnderTest \(p. 1077\)](#) object

Required: No

selectedTestList

Gets test case list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 12. Maximum length of 36.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteRunInformation

Service: AWS IoT Core Device Advisor

Information about the suite run.

Requires permission to access the [SuiteRunInformation](#) action.

Contents

createdAt

Date (in Unix epoch time) when the suite run was created.

Type: Timestamp

Required: No

endAt

Date (in Unix epoch time) when the suite run ended.

Type: Timestamp

Required: No

failed

Number of test cases that failed in the suite run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 500.

Required: No

passed

Number of test cases that passed in the suite run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 500.

Required: No

startedAt

Date (in Unix epoch time) when the suite run was started.

Type: Timestamp

Required: No

status

Status of the suite run.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

Required: No

suiteDefinitionId

Suite definition ID of the suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

suiteDefinitionName

Suite definition name of the suite run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

suiteDefinitionVersion

Suite definition version of the suite run.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

Required: No

suiteRunId

Suite run ID of the suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TestCaseRun

Service: AWS IoT Core Device Advisor

Provides the test case run.

Contents

endTime

Provides test case run end time.

Type: Timestamp

Required: No

failure

Provides test case run failure result.

Type: String

Required: No

logUrl

Provides test case run log URL.

Type: String

Required: No

startTime

Provides test case run start time.

Type: Timestamp

Required: No

status

Provides the test case run status. Status is one of the following:

- PASS: Test passed.
- FAIL: Test failed.
- PENDING: Test has not started running but is scheduled.
- RUNNING: Test is running.
- STOPPING: Test is performing cleanup steps. You will see this status only if you stop a suite run.
- STOPPED: Test is stopped. You will see this status only if you stop a suite run.
- PASS_WITH_WARNINGS: Test passed with warnings.
- ERROR: Test faced an error when running due to an internal issue.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

Required: No

testCaseDefinitionId

Provides the test case run definition ID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

testCaseDefinitionName

Provides the test case run definition name.

Type: String

Required: No

testCaseRunId

Provides the test case run ID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

warnings

Provides test case run warnings.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TestResult

Service: AWS IoT Core Device Advisor

Show each group result.

Contents

groups

Show each group of test results.

Type: Array of [GroupResult \(p. 1078\)](#) objects

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Fleet Hub

The following data types are supported by AWS IoT Fleet Hub:

- [ApplicationSummary \(p. 1089\)](#)

ApplicationSummary

Service: AWS IoT Fleet Hub

A summary of information about a Fleet Hub for AWS IoT Device Management web application.

Contents

applicationCreationDate

The date (in Unix epoch time) when the web application was created.

Type: Long

Required: No

applicationDescription

An optional description of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^[-~]*\$

Required: No

applicationId

The unique Id of the web application.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$

Required: Yes

applicationLastUpdateDate

The date (in Unix epoch time) when the web application was last updated.

Type: Long

Required: No

applicationName

The name of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: ^[-~]*\$

Required: Yes

applicationState

The current state of the web application.

Type: String

Valid Values: CREATING | DELETING | ACTIVE | CREATE_FAILED | DELETE_FAILED

Required: No

applicationUrl

The URL of the web application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^https\:\/\/\S+\$

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Secure Tunneling

The following data types are supported by AWS IoT Secure Tunneling:

- [ConnectionState \(p. 1091\)](#)
- [DestinationConfig \(p. 1092\)](#)
- [Tag \(p. 1093\)](#)
- [TimeoutConfig \(p. 1094\)](#)
- [Tunnel \(p. 1095\)](#)
- [TunnelSummary \(p. 1097\)](#)

ConnectionState

Service: AWS IoT Secure Tunneling

The state of a connection.

Contents

lastUpdatedAt

The last time the connection status was updated.

Type: Timestamp

Required: No

status

The connection status of the tunnel. Valid values are CONNECTED and DISCONNECTED.

Type: String

Valid Values: CONNECTED | DISCONNECTED

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DestinationConfig

Service: AWS IoT Secure Tunneling

The destination configuration.

Contents

services

A list of service names that identify the target application. The AWS IoT client running on the destination device reads this value and uses it to look up a port or an IP address and a port. The AWS IoT client instantiates the local proxy, which uses this information to connect to the destination application.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

thingName

The name of the IoT thing to which you want to connect.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: AWS IoT Secure Tunneling

An arbitrary key/value pair used to add searchable metadata to secure tunnel resources.

Contents

key

The key of the tag.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^([\p{L}\p{Z}\p{N}_.:=/=+\-@\"]*)$`

Required: Yes

value

The value of the tag.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `^([\p{L}\p{Z}\p{N}_.:=/=+\-@\"]*)$`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimeoutConfig

Service: AWS IoT Secure Tunneling

Tunnel timeout configuration.

Contents

maxLifetimeTimeoutMinutes

The maximum amount of time (in minutes) a tunnel can remain open. If not specified, maxLifetimeTimeoutMinutes defaults to 720 minutes. Valid values are from 1 minute to 12 hours (720 minutes)

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 720.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tunnel

Service: AWS IoT Secure Tunneling

A connection between a source computer and a destination device.

Contents

createdAt

The time when the tunnel was created.

Type: Timestamp

Required: No

description

A description of the tunnel.

Type: String

Pattern: [^\p{C}]{1,2048}

Required: No

destinationConfig

The destination configuration that specifies the thing name of the destination device and a service name that the local proxy uses to connect to the destination application.

Type: [DestinationConfig \(p. 1092\)](#) object

Required: No

destinationConnectionState

The connection state of the destination application.

Type: [ConnectionState \(p. 1091\)](#) object

Required: No

lastUpdatedAt

The last time the tunnel was updated.

Type: Timestamp

Required: No

sourceConnectionState

The connection state of the source application.

Type: [ConnectionState \(p. 1091\)](#) object

Required: No

status

The status of a tunnel. Valid values are: Open and Closed.

Type: String

Valid Values: OPEN | CLOSED

Required: No

tags

A list of tag metadata associated with the secure tunnel.

Type: Array of [Tag \(p. 1093\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: No

timeoutConfig

Timeout configuration for the tunnel.

Type: [TimeoutConfig \(p. 1094\)](#) object

Required: No

tunnelArn

The Amazon Resource Name (ARN) of a tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

tunnelId

A unique alpha-numeric ID that identifies a tunnel.

Type: String

Pattern: [a-zA-Z0-9\-\+=:] {1,128}

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TunnelSummary

Service: AWS IoT Secure Tunneling

Information about the tunnel.

Contents

createdAt

The time the tunnel was created.

Type: Timestamp

Required: No

description

A description of the tunnel.

Type: String

Pattern: [^\p{C}]{1,2048}

Required: No

lastUpdatedAt

The time the tunnel was last updated.

Type: Timestamp

Required: No

status

The status of a tunnel. Valid values are: Open and Closed.

Type: String

Valid Values: OPEN | CLOSED

Required: No

tunnelArn

The Amazon Resource Name of the tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

tunnelId

The unique alpha-numeric identifier for the tunnel.

Type: String

Pattern: [a-zA-Z0-9\-\+=:]{1,128}

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 Go](#)
- [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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

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 [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional