
AWS CloudHSM V2

API Reference

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AWS CloudHSM V2: API Reference

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Welcome

Welcome to the AWS CloudHSM API Reference.

For more information about AWS CloudHSM, see [AWS CloudHSM](#) and the [AWS CloudHSM User Guide](#).

This document was last published on December 11, 2018.

Actions

The following actions are supported:

- [CopyBackupToRegion](#) (p. 3)
- [CreateCluster](#) (p. 6)
- [CreateHsm](#) (p. 9)
- [DeleteBackup](#) (p. 12)
- [DeleteCluster](#) (p. 14)
- [DeleteHsm](#) (p. 17)
- [DescribeBackups](#) (p. 20)
- [DescribeClusters](#) (p. 23)
- [InitializeCluster](#) (p. 26)
- [ListTags](#) (p. 29)
- [RestoreBackup](#) (p. 32)
- [TagResource](#) (p. 34)
- [UntagResource](#) (p. 36)

CopyBackupToRegion

Copy an AWS CloudHSM cluster backup to a different region.

Request Syntax

```
{  
  "BackupId": "string",  
  "DestinationRegion": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 50\)](#).

The request accepts the following data in JSON format.

BackupId (p. 3)

The ID of the backup that will be copied to the destination region.

Type: String

Pattern: backup-[2-7a-zA-Z]{11,16}

Required: Yes

DestinationRegion (p. 3)

The AWS region that will contain your copied CloudHSM cluster backup.

Type: String

Pattern: [a-z]{2}(-(gov))?(east|west|north|south|central){1,2}-\d

Required: Yes

Response Syntax

```
{  
  "DestinationBackup": {  
    "CreateTimestamp": number,  
    "SourceBackup": "string",  
    "SourceCluster": "string",  
    "SourceRegion": "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.

[DestinationBackup \(p. 3\)](#)

Information on the backup that will be copied to the destination region, including `CreateTimestamp`, `SourceBackup`, `SourceCluster`, and `SourceRegion`. `CreateTimestamp` of the destination backup will be the same as that of the source backup.

You will need to use the `sourceBackupID` returned in this operation to use the [DescribeBackups \(p. 20\)](#) operation on the backup that will be copied to the destination region.

Type: [DestinationBackup \(p. 46\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

- [AWS SDK for Ruby V2](#)

CreateCluster

Creates a new AWS CloudHSM cluster.

Request Syntax

```
{  
  "HsmType": "string",  
  "SourceBackupId": "string",  
  "SubnetIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 50\)](#).

The request accepts the following data in JSON format.

HsmType (p. 6)

The type of HSM to use in the cluster. Currently the only allowed value is `hsm1.medium`.

Type: String

Pattern: `(hsm1\.medium)`

Required: Yes

SourceBackupId (p. 6)

The identifier (ID) of the cluster backup to restore. Use this value to restore the cluster from a backup instead of creating a new cluster. To find the backup ID, use [DescribeBackups \(p. 20\)](#).

Type: String

Pattern: `backup-[2-7a-zA-Z]{11,16}`

Required: No

SubnetIds (p. 6)

The identifiers (IDs) of the subnets where you are creating the cluster. You must specify at least one subnet. If you specify multiple subnets, they must meet the following criteria:

- All subnets must be in the same virtual private cloud (VPC).
- You can specify only one subnet per Availability Zone.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: `subnet-[0-9a-fA-F]{8,17}`

Required: Yes

Response Syntax

```
{
```

```

"Cluster": {
  "BackupPolicy": "string",
  "Certificates": {
    "AwsHardwareCertificate": "string",
    "ClusterCertificate": "string",
    "ClusterCsr": "string",
    "HsmCertificate": "string",
    "ManufacturerHardwareCertificate": "string"
  },
  "ClusterId": "string",
  "CreateTimestamp": number,
  "Hsms": [
    {
      "AvailabilityZone": "string",
      "ClusterId": "string",
      "EniId": "string",
      "EniIp": "string",
      "HsmId": "string",
      "State": "string",
      "StateMessage": "string",
      "SubnetId": "string"
    }
  ],
  "HsmType": "string",
  "PreCoPassword": "string",
  "SecurityGroup": "string",
  "SourceBackupId": "string",
  "State": "string",
  "StateMessage": "string",
  "SubnetMapping": {
    "string": "string"
  },
  "VpcId": "string"
}

```

Response Elements

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

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

Cluster (p. 6)

Information about the cluster that was created.

Type: [Cluster \(p. 43\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

CreateHsm

Creates a new hardware security module (HSM) in the specified AWS CloudHSM cluster.

Request Syntax

```
{
  "AvailabilityZone": "string",
  "ClusterId": "string",
  "IpAddress": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 50\)](#).

The request accepts the following data in JSON format.

AvailabilityZone (p. 9)

The Availability Zone where you are creating the HSM. To find the cluster's Availability Zones, use [DescribeClusters \(p. 23\)](#).

Type: String

Pattern: `[a-z]{2}(-(gov))?-(east|west|north|south|central){1,2}-\d[a-z]`

Required: Yes

ClusterId (p. 9)

The identifier (ID) of the HSM's cluster. To find the cluster ID, use [DescribeClusters \(p. 23\)](#).

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: Yes

IpAddress (p. 9)

The HSM's IP address. If you specify an IP address, use an available address from the subnet that maps to the Availability Zone where you are creating the HSM. If you don't specify an IP address, one is chosen for you from that subnet.

Type: String

Pattern: `\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}`

Required: No

Response Syntax

```
{
  "Hsm": {
    "AvailabilityZone": "string",

```

```
"ClusterId": "string",  
"EniId": "string",  
"EniIp": "string",  
"HsmId": "string",  
"State": "string",  
"StateMessage": "string",  
"SubnetId": "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.

Hsm (p. 9)

Information about the HSM that was created.

Type: [Hsm \(p. 47\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

DeleteBackup

Deletes a specified AWS CloudHSM backup. A backup can be restored up to 7 days after the DeleteBackup request is made. For more information on restoring a backup, see [RestoreBackup](#) (p. 32).

Request Syntax

```
{
  "BackupId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

BackupId (p. 12)

The ID of the backup to be deleted. To find the ID of a backup, use the [DescribeBackups](#) (p. 20) operation.

Type: String

Pattern: backup-[2-7a-zA-Z]{11,16}

Required: Yes

Response Syntax

```
{
  "Backup": {
    "BackupId": "string",
    "BackupState": "string",
    "ClusterId": "string",
    "CopyTimestamp": number,
    "CreateTimestamp": number,
    "DeleteTimestamp": number,
    "SourceBackup": "string",
    "SourceCluster": "string",
    "SourceRegion": "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.

Backup (p. 12)

Information on the Backup object deleted.

Type: [Backup \(p. 39\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

DeleteCluster

Deletes the specified AWS CloudHSM cluster. Before you can delete a cluster, you must delete all HSMs in the cluster. To see if the cluster contains any HSMs, use [DescribeClusters](#) (p. 23). To delete an HSM, use [DeleteHsm](#) (p. 17).

Request Syntax

```
{
  "ClusterId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

ClusterId (p. 14)

The identifier (ID) of the cluster that you are deleting. To find the cluster ID, use [DescribeClusters](#) (p. 23).

Type: String

Pattern: cluster-[2-7a-zA-Z]{11,16}

Required: Yes

Response Syntax

```
{
  "Cluster": {
    "BackupPolicy": "string",
    "Certificates": {
      "AwsHardwareCertificate": "string",
      "ClusterCertificate": "string",
      "ClusterCsr": "string",
      "HsmCertificate": "string",
      "ManufacturerHardwareCertificate": "string"
    },
    "ClusterId": "string",
    "CreateTimestamp": number,
    "Hsms": [
      {
        "AvailabilityZone": "string",
        "ClusterId": "string",
        "EniId": "string",
        "EniIp": "string",
        "HsmId": "string",
        "State": "string",
        "StateMessage": "string",
        "SubnetId": "string"
      }
    ],
    "HsmType": "string",
  }
}
```

```
    "PreCoPassword": "string",
    "SecurityGroup": "string",
    "SourceBackupId": "string",
    "State": "string",
    "StateMessage": "string",
    "SubnetMapping": {
        "string" : "string"
    },
    "VpcId": "string"
}
```

Response Elements

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

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

Cluster (p. 14)

Information about the cluster that was deleted.

Type: [Cluster \(p. 43\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

DeleteHsm

Deletes the specified HSM. To specify an HSM, you can use its identifier (ID), the IP address of the HSM's elastic network interface (ENI), or the ID of the HSM's ENI. You need to specify only one of these values. To find these values, use [DescribeClusters](#) (p. 23).

Request Syntax

```
{  
  "ClusterId": "string",  
  "EniId": "string",  
  "EniIp": "string",  
  "HsmId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

ClusterId (p. 17)

The identifier (ID) of the cluster that contains the HSM that you are deleting.

Type: String

Pattern: cluster-[2-7a-zA-Z]{11,16}

Required: Yes

EniId (p. 17)

The identifier (ID) of the elastic network interface (ENI) of the HSM that you are deleting.

Type: String

Pattern: eni-[0-9a-fA-F]{8,17}

Required: No

EniIp (p. 17)

The IP address of the elastic network interface (ENI) of the HSM that you are deleting.

Type: String

Pattern: \d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}

Required: No

HsmId (p. 17)

The identifier (ID) of the HSM that you are deleting.

Type: String

Pattern: hsm-[2-7a-zA-Z]{11,16}

Required: No

Response Syntax

```
{  
  "HsmId": "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.

HsmId (p. 18)

The identifier (ID) of the HSM that was deleted.

Type: String

Pattern: hsm-[2-7a-zA-Z]{11,16}

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 52).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

DescribeBackups

Gets information about backups of AWS CloudHSM clusters.

This is a paginated operation, which means that each response might contain only a subset of all the backups. When the response contains only a subset of backups, it includes a `NextToken` value. Use this value in a subsequent `DescribeBackups` request to get more backups. When you receive a response with no `NextToken` (or an empty or null value), that means there are no more backups to get.

Request Syntax

```
{
  "Filters": {
    "string": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string",
  "SortAscending": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 50\)](#).

The request accepts the following data in JSON format.

Filters (p. 20)

One or more filters to limit the items returned in the response.

Use the `backupIds` filter to return only the specified backups. Specify backups by their backup identifier (ID).

Use the `sourceBackupIds` filter to return only the backups created from a source backup. The `sourceBackupID` of a source backup is returned by the [CopyBackupToRegion \(p. 3\)](#) operation.

Use the `clusterIds` filter to return only the backups for the specified clusters. Specify clusters by their cluster identifier (ID).

Use the `states` filter to return only backups that match the specified state.

Type: String to array of strings map

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

Required: No

MaxResults (p. 20)

The maximum number of backups to return in the response. When there are more backups than the number you specify, the response contains a `NextToken` value.

Type: Integer

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

Required: No

NextToken (p. 20)

The `NextToken` value that you received in the previous response. Use this value to get more backups.

Type: String

Length Constraints: Maximum length of 256.

Pattern: .*

Required: No

SortAscending (p. 20)

Type: Boolean

Required: No

Response Syntax

```
{
  "Backups": [
    {
      "BackupId": "string",
      "BackupState": "string",
      "ClusterId": "string",
      "CopyTimestamp": number,
      "CreateTimestamp": number,
      "DeleteTimestamp": number,
      "SourceBackup": "string",
      "SourceCluster": "string",
      "SourceRegion": "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.

Backups (p. 21)

A list of backups.

Type: Array of [Backup \(p. 39\)](#) objects

NextToken (p. 21)

An opaque string that indicates that the response contains only a subset of backups. Use this value in a subsequent `DescribeBackups` request to get more backups.

Type: String

Length Constraints: Maximum length of 256.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

DescribeClusters

Gets information about AWS CloudHSM clusters.

This is a paginated operation, which means that each response might contain only a subset of all the clusters. When the response contains only a subset of clusters, it includes a `NextToken` value. Use this value in a subsequent `DescribeClusters` request to get more clusters. When you receive a response with no `NextToken` (or an empty or null value), that means there are no more clusters to get.

Request Syntax

```
{
  "Filters": {
    "string": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

Filters (p. 23)

One or more filters to limit the items returned in the response.

Use the `clusterIds` filter to return only the specified clusters. Specify clusters by their cluster identifier (ID).

Use the `vpcIds` filter to return only the clusters in the specified virtual private clouds (VPCs). Specify VPCs by their VPC identifier (ID).

Use the `states` filter to return only clusters that match the specified state.

Type: String to array of strings map

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

Required: No

MaxResults (p. 23)

The maximum number of clusters to return in the response. When there are more clusters than the number you specify, the response contains a `NextToken` value.

Type: Integer

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

Required: No

NextToken (p. 23)

The `NextToken` value that you received in the previous response. Use this value to get more clusters.

Type: String

Length Constraints: Maximum length of 256.

Pattern: .*

Required: No

Response Syntax

```
{
  "Clusters": [
    {
      "BackupPolicy": "string",
      "Certificates": {
        "AwsHardwareCertificate": "string",
        "ClusterCertificate": "string",
        "ClusterCsr": "string",
        "HsmCertificate": "string",
        "ManufacturerHardwareCertificate": "string"
      },
      "ClusterId": "string",
      "CreateTimestamp": number,
      "Hsms": [
        {
          "AvailabilityZone": "string",
          "ClusterId": "string",
          "EniId": "string",
          "EniIp": "string",
          "HsmId": "string",
          "State": "string",
          "StateMessage": "string",
          "SubnetId": "string"
        }
      ],
      "HsmType": "string",
      "PreCoPassword": "string",
      "SecurityGroup": "string",
      "SourceBackupId": "string",
      "State": "string",
      "StateMessage": "string",
      "SubnetMapping": {
        "string": "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.

Clusters (p. 24)

A list of clusters.

Type: Array of [Cluster \(p. 43\)](#) objects

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

An opaque string that indicates that the response contains only a subset of clusters. Use this value in a subsequent `DescribeClusters` request to get more clusters.

Type: String

Length Constraints: Maximum length of 256.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

InitializeCluster

Claims an AWS CloudHSM cluster by submitting the cluster certificate issued by your issuing certificate authority (CA) and the CA's root certificate. Before you can claim a cluster, you must sign the cluster's certificate signing request (CSR) with your issuing CA. To get the cluster's CSR, use [DescribeClusters](#) (p. 23).

Request Syntax

```
{
  "ClusterId": "string",
  "SignedCert": "string",
  "TrustAnchor": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

ClusterId (p. 26)

The identifier (ID) of the cluster that you are claiming. To find the cluster ID, use [DescribeClusters](#) (p. 23).

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: Yes

SignedCert (p. 26)

The cluster certificate issued (signed) by your issuing certificate authority (CA). The certificate must be in PEM format and can contain a maximum of 5000 characters.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: `[a-zA-Z0-9+\/=\s]*`

Required: Yes

TrustAnchor (p. 26)

The issuing certificate of the issuing certificate authority (CA) that issued (signed) the cluster certificate. You can use a self-signed certificate or a certificate from a private CA. The certificate used to sign the HSM CSR must be directly available, and thus must be the root certificate. The certificate or certificate chain must be in PEM format and can contain a maximum of 5000 characters.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: `[a-zA-Z0-9+\/=\s]*`

Required: Yes

Response Syntax

```
{  
  "State": "string",  
  "StateMessage": "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.

State (p. 27)

The cluster's state.

Type: String

Valid Values: CREATE_IN_PROGRESS | UNINITIALIZED | INITIALIZE_IN_PROGRESS | INITIALIZED | ACTIVE | UPDATE_IN_PROGRESS | DELETE_IN_PROGRESS | DELETED | DEGRADED

StateMessage (p. 27)

A description of the cluster's state.

Type: String

Length Constraints: Maximum length of 300.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

ListTags

Gets a list of tags for the specified AWS CloudHSM cluster.

This is a paginated operation, which means that each response might contain only a subset of all the tags. When the response contains only a subset of tags, it includes a `NextToken` value. Use this value in a subsequent `ListTags` request to get more tags. When you receive a response with no `NextToken` (or an empty or null value), that means there are no more tags to get.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

MaxResults (p. 29)

The maximum number of tags to return in the response. When there are more tags than the number you specify, the response contains a `NextToken` value.

Type: Integer

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

Required: No

NextToken (p. 29)

The `NextToken` value that you received in the previous response. Use this value to get more tags.

Type: String

Length Constraints: Maximum length of 256.

Pattern: .*

Required: No

ResourceId (p. 29)

The cluster identifier (ID) for the cluster whose tags you are getting. To find the cluster ID, use [DescribeClusters](#) (p. 23).

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "TagList": [
    {
      "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. 30)

An opaque string that indicates that the response contains only a subset of tags. Use this value in a subsequent `ListTags` request to get more tags.

Type: String

Length Constraints: Maximum length of 256.

Pattern: .*

TagList (p. 30)

A list of tags.

Type: Array of [Tag \(p. 49\)](#) objects

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

RestoreBackup

Restores a specified AWS CloudHSM backup that is in the `PENDING_DELETION` state. For more information on deleting a backup, see [DeleteBackup](#) (p. 12).

Request Syntax

```
{  
  "BackupId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 50).

The request accepts the following data in JSON format.

BackupId (p. 32)

The ID of the backup to be restored. To find the ID of a backup, use the [DescribeBackups](#) (p. 20) operation.

Type: String

Pattern: backup-[2-7a-zA-Z]{11,16}

Required: Yes

Response Syntax

```
{  
  "Backup": {  
    "BackupId": "string",  
    "BackupState": "string",  
    "ClusterId": "string",  
    "CopyTimestamp": number,  
    "CreateTimestamp": number,  
    "DeleteTimestamp": number,  
    "SourceBackup": "string",  
    "SourceCluster": "string",  
    "SourceRegion": "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.

Backup (p. 32)

Information on the `Backup` object created.

Type: [Backup \(p. 39\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

TagResource

Adds or overwrites one or more tags for the specified AWS CloudHSM cluster.

Request Syntax

```
{
  "ResourceId": "string",
  "TagList": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 50\)](#).

The request accepts the following data in JSON format.

ResourceId (p. 34)

The cluster identifier (ID) for the cluster that you are tagging. To find the cluster ID, use [DescribeClusters \(p. 23\)](#).

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: Yes

TagList (p. 34)

A list of one or more tags.

Type: Array of [Tag \(p. 49\)](#) objects

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

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

UntagResource

Removes the specified tag or tags from the specified AWS CloudHSM cluster.

Request Syntax

```
{
  "ResourceId": "string",
  "TagKeyList": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 50\)](#).

The request accepts the following data in JSON format.

ResourceId (p. 36)

The cluster identifier (ID) for the cluster whose tags you are removing. To find the cluster ID, use [DescribeClusters \(p. 23\)](#).

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: Yes

TagKeyList (p. 36)

A list of one or more tag keys for the tags that you are removing. Specify only the tag keys, not the tag values.

Type: Array of strings

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

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

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

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 52\)](#).

CloudHsmAccessDeniedException

The request was rejected because the requester does not have permission to perform the requested operation.

HTTP Status Code: 400

CloudHsmInternalFailureException

The request was rejected because of an AWS CloudHSM internal failure. The request can be retried.

HTTP Status Code: 500

CloudHsmInvalidRequestException

The request was rejected because it is not a valid request.

HTTP Status Code: 400

CloudHsmResourceNotFoundException

The request was rejected because it refers to a resource that cannot be found.

HTTP Status Code: 400

CloudHsmServiceException

The request was rejected because an error occurred.

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

Data Types

The AWS CloudHSM V2 API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [Backup](#) (p. 39)
- [Certificates](#) (p. 41)
- [Cluster](#) (p. 43)
- [DestinationBackup](#) (p. 46)
- [Hsm](#) (p. 47)
- [Tag](#) (p. 49)

Backup

Contains information about a backup of an AWS CloudHSM cluster.

Contents

BackupId

The identifier (ID) of the backup.

Type: String

Pattern: `backup-[2-7a-zA-Z]{11,16}`

Required: Yes

BackupState

The state of the backup.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `READY` | `DELETED` | `PENDING_DELETION`

Required: No

ClusterId

The identifier (ID) of the cluster that was backed up.

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: No

CopyTimestamp

Type: Timestamp

Required: No

CreateTimestamp

The date and time when the backup was created.

Type: Timestamp

Required: No

DeleteTimestamp

The date and time when the backup will be permanently deleted.

Type: Timestamp

Required: No

SourceBackup

Type: String

Pattern: `backup-[2-7a-zA-Z]{11,16}`

Required: No

SourceCluster

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: No

SourceRegion

Type: String

Pattern: `[a-z]{2}(-(gov))?-(east|west|north|south|central){1,2}-\d`

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

Certificates

Contains one or more certificates or a certificate signing request (CSR).

Contents

AwsHardwareCertificate

The HSM hardware certificate issued (signed) by AWS CloudHSM.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: [a-zA-Z0-9+ -/=\s]*

Required: No

ClusterCertificate

The cluster certificate issued (signed) by the issuing certificate authority (CA) of the cluster's owner.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: [a-zA-Z0-9+ -/=\s]*

Required: No

ClusterCsr

The cluster's certificate signing request (CSR). The CSR exists only when the cluster's state is `UNINITIALIZED`.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: [a-zA-Z0-9+ -/=\s]*

Required: No

HsmCertificate

The HSM certificate issued (signed) by the HSM hardware.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: [a-zA-Z0-9+ -/=\s]*

Required: No

ManufacturerHardwareCertificate

The HSM hardware certificate issued (signed) by the hardware manufacturer.

Type: String

Length Constraints: Maximum length of 5000.

Pattern: [a-zA-Z0-9+~/=\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](#)
- [AWS SDK for Ruby V2](#)

Cluster

Contains information about an AWS CloudHSM cluster.

Contents

BackupPolicy

The cluster's backup policy.

Type: String

Valid Values: `DEFAULT`

Required: No

Certificates

Contains one or more certificates or a certificate signing request (CSR).

Type: [Certificates \(p. 41\)](#) object

Required: No

ClusterId

The cluster's identifier (ID).

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: No

CreateTimestamp

The date and time when the cluster was created.

Type: Timestamp

Required: No

Hsms

Contains information about the HSMs in the cluster.

Type: Array of [Hsm \(p. 47\)](#) objects

Required: No

HsmType

The type of HSM that the cluster contains.

Type: String

Pattern: `(hsm1|.medium)`

Required: No

PreCoPassword

The default password for the cluster's Pre-Crypto Officer (PRECO) user.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 32.

Required: No

SecurityGroup

The identifier (ID) of the cluster's security group.

Type: String

Pattern: `sg-[0-9a-fA-F]{8,17}`

Required: No

SourceBackupId

The identifier (ID) of the backup used to create the cluster. This value exists only when the cluster was created from a backup.

Type: String

Pattern: `backup-[2-7a-zA-Z]{11,16}`

Required: No

State

The cluster's state.

Type: String

Valid Values: `CREATE_IN_PROGRESS | UNINITIALIZED | INITIALIZE_IN_PROGRESS | INITIALIZED | ACTIVE | UPDATE_IN_PROGRESS | DELETE_IN_PROGRESS | DELETED | DEGRADED`

Required: No

StateMessage

A description of the cluster's state.

Type: String

Length Constraints: Maximum length of 300.

Pattern: `.*`

Required: No

SubnetMapping

A map of the cluster's subnets and their corresponding Availability Zones.

Type: String to string map

Key Pattern: `[a-z]{2}(-(gov))?-(east|west|north|south|central){1,2}-\d[a-z]`

Value Pattern: `subnet-[0-9a-fA-F]{8,17}`

Required: No

VpcId

The identifier (ID) of the virtual private cloud (VPC) that contains the cluster.

Type: String

Pattern: vpc-[0-9a-fA-F]

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

DestinationBackup

Contents

CreateTimestamp

Type: Timestamp

Required: No

SourceBackup

Type: String

Pattern: backup-[2-7a-zA-Z]{11,16}

Required: No

SourceCluster

Type: String

Pattern: cluster-[2-7a-zA-Z]{11,16}

Required: No

SourceRegion

Type: String

Pattern: [a-z]{2}(-(gov))?-(east|west|north|south|central){1,2}-\d

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

Hsm

Contains information about a hardware security module (HSM) in an AWS CloudHSM cluster.

Contents

AvailabilityZone

The Availability Zone that contains the HSM.

Type: String

Pattern: `[a-z]{2}(-(gov))?-(east|west|north|south|central){1,2}-\d[a-z]`

Required: No

ClusterId

The identifier (ID) of the cluster that contains the HSM.

Type: String

Pattern: `cluster-[2-7a-zA-Z]{11,16}`

Required: No

EniId

The identifier (ID) of the HSM's elastic network interface (ENI).

Type: String

Pattern: `eni-[0-9a-fA-F]{8,17}`

Required: No

EniIp

The IP address of the HSM's elastic network interface (ENI).

Type: String

Pattern: `\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}`

Required: No

HsmId

The HSM's identifier (ID).

Type: String

Pattern: `hsm-[2-7a-zA-Z]{11,16}`

Required: Yes

State

The HSM's state.

Type: String

Valid Values: `CREATE_IN_PROGRESS | ACTIVE | DEGRADED | DELETE_IN_PROGRESS | DELETED`

Required: No

StateMessage

A description of the HSM's state.

Type: String

Required: No

SubnetId

The subnet that contains the HSM's elastic network interface (ENI).

Type: String

Pattern: subnet-[0-9a-fA-F]{8,17}

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

Tag

Contains a tag. A tag is a key-value pair.

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

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'THHMMSS'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

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400