
AWS CloudHSM Service

API Reference

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AWS CloudHSM Service: API Reference

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Welcome

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

This document was last published on November 17, 2018.

Actions

The following actions are supported:

- [AddTagsToResource](#) (p. 3)
- [CreateHapg](#) (p. 5)
- [CreateHsm](#) (p. 7)
- [CreateLunaClient](#) (p. 11)
- [DeleteHapg](#) (p. 13)
- [DeleteHsm](#) (p. 15)
- [DeleteLunaClient](#) (p. 17)
- [DescribeHapg](#) (p. 19)
- [DescribeHsm](#) (p. 22)
- [DescribeLunaClient](#) (p. 27)
- [GetConfig](#) (p. 30)
- [ListAvailableZones](#) (p. 33)
- [ListHapgs](#) (p. 35)
- [ListHsms](#) (p. 37)
- [ListLunaClients](#) (p. 39)
- [ListTagsForResource](#) (p. 41)
- [ModifyHapg](#) (p. 43)
- [ModifyHsm](#) (p. 45)
- [ModifyLunaClient](#) (p. 48)
- [RemoveTagsFromResource](#) (p. 50)

AddTagsToResource

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

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

Each tag consists of a key and a value. Tag keys must be unique to each resource.

Request Syntax

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

Request Parameters

The request accepts the following data in JSON format.

ResourceArn (p. 3)

The Amazon Resource Name (ARN) of the AWS CloudHSM resource to tag.

Type: String

Pattern: `[\w :+=. /\-]*`

Required: Yes

TagList (p. 3)

One or more tags.

Type: Array of [Tag \(p. 54\)](#) objects

Required: Yes

Response Syntax

```
{
  "Status": "string"
}
```

Response Elements

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

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

Status (p. 3)

The status of the operation.

Type: String

Pattern: `[\w :+=. /\-]*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

CreateHapg

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Creates a high-availability partition group. A high-availability partition group is a group of partitions that spans multiple physical HSMs.

Request Syntax

```
{  
  "Label": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

Label (p. 5)

The label of the new high-availability partition group.

Type: String

Pattern: [a-zA-Z0-9_.-]{1,64}

Required: Yes

Response Syntax

```
{  
  "HapgArn": "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.

HapgArn (p. 5)

The ARN of the high-availability partition group.

Type: String

Pattern: arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*]:[0-9]{12}:hapg-[0-9a-f]{8}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

CreateHsm

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Creates an uninitialized HSM instance.

There is an upfront fee charged for each HSM instance that you create with the `CreateHsm` operation. If you accidentally provision an HSM and want to request a refund, delete the instance using the [DeleteHsm \(p. 15\)](#) operation, go to the [AWS Support Center](#), create a new case, and select **Account and Billing Support**.

Important

It can take up to 20 minutes to create and provision an HSM. You can monitor the status of the HSM with the [DescribeHsm \(p. 22\)](#) operation. The HSM is ready to be initialized when the status changes to `RUNNING`.

Request Syntax

```
{
  "ClientToken": "string",
  "EniIp": "string",
  "ExternalId": "string",
  "IamRoleArn": "string",
  "SshKey": "string",
  "SubnetId": "string",
  "SubscriptionType": "string",
  "SyslogIp": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

ClientToken (p. 7)

A user-defined token to ensure idempotence. Subsequent calls to this operation with the same token will be ignored.

Type: String

Pattern: `[a-zA-Z0-9]{1,64}`

Required: No

EniIp (p. 7)

The IP address to assign to the HSM's ENI.

If an IP address is not specified, an IP address will be randomly chosen from the CIDR range of the subnet.

Type: String

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

Required: No

ExternalId (p. 7)

The external ID from `IamRoleArn`, if present.

Type: String

Pattern: `[\w :+=./-]*`

Required: No

IamRoleArn (p. 7)

The ARN of an IAM role to enable the AWS CloudHSM service to allocate an ENI on your behalf.

Type: String

Pattern: `arn:aws(-iso)?:iam:[0-9]{12}:role/[a-zA-Z0-9_+=,.\-@]{1,64}`

Required: Yes

SshKey (p. 7)

The SSH public key to install on the HSM.

Type: String

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

Required: Yes

SubnetId (p. 7)

The identifier of the subnet in your VPC in which to place the HSM.

Type: String

Pattern: `subnet-[0-9a-f]{8}`

Required: Yes

SubscriptionType (p. 7)

Specifies the type of subscription for the HSM.

- **PRODUCTION** - The HSM is being used in a production environment.
- **TRIAL** - The HSM is being used in a product trial.

Type: String

Valid Values: `PRODUCTION`

Required: Yes

SyslogIp (p. 7)

The IP address for the syslog monitoring server. The AWS CloudHSM service only supports one syslog monitoring server.

Type: String

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

Required: No

Response Syntax

```
{  
  "HsmArn": "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.

HsmArn (p. 9)

The ARN of the HSM.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*]:[0-9]{12}:hsm-[0-9a-f]{8}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Ruby V2](#)

CreateLunaClient

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Creates an HSM client.

Request Syntax

```
{  
  "Certificate": "string",  
  "Label": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

Certificate (p. 11)

The contents of a Base64-Encoded X.509 v3 certificate to be installed on the HSMs used by this client.

Type: String

Length Constraints: Minimum length of 600. Maximum length of 2400.

Pattern: `[\w :+=. / \n -]*`

Required: Yes

Label (p. 11)

The label for the client.

Type: String

Pattern: `[a-zA-Z0-9_.-]{2,64}`

Required: No

Response Syntax

```
{  
  "ClientArn": "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.

[ClientArn \(p. 11\)](#)

The ARN of the client.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*]:[0-9]{12}:client-[0-9a-f]{8}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

DeleteHapg

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Deletes a high-availability partition group.

Request Syntax

```
{  
  "HapgArn": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

HapgArn (p. 13)

The ARN of the high-availability partition group to delete.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hapg-[0-9a-f]{8}`

Required: Yes

Response Syntax

```
{  
  "Status": "string"  
}
```

Response Elements

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

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

Status (p. 13)

The status of the action.

Type: String

Pattern: `[\w :+=. /\-\-]*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

DeleteHsm

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Deletes an HSM. After completion, this operation cannot be undone and your key material cannot be recovered.

Request Syntax

```
{  
  "HsmArn": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

HsmArn (p. 15)

The ARN of the HSM to delete.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}`

Required: Yes

Response Syntax

```
{  
  "Status": "string"  
}
```

Response Elements

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

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

Status (p. 15)

The status of the operation.

Type: String

Pattern: `[\w :+=.\/\-\]*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

DeleteLunaClient

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Deletes a client.

Request Syntax

```
{  
  "ClientArn": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

[ClientArn \(p. 17\)](#)

The ARN of the client to delete.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:client-[0-9a-f]{8}`

Required: Yes

Response Syntax

```
{  
  "Status": "string"  
}
```

Response Elements

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

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

[Status \(p. 17\)](#)

The status of the action.

Type: String

Pattern: `[\w :+=./\-\]*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

DescribeHapg

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Retrieves information about a high-availability partition group.

Request Syntax

```
{  
  "HapgArn": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

HapgArn (p. 19)

The ARN of the high-availability partition group to describe.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*]:[0-9]{12}:hapg-[0-9a-f]{8}`

Required: Yes

Response Syntax

```
{  
  "HapgArn": "string",  
  "HapgSerial": "string",  
  "HsmsLastActionFailed": [ "string" ],  
  "HsmsPendingDeletion": [ "string" ],  
  "HsmsPendingRegistration": [ "string" ],  
  "Label": "string",  
  "LastModifiedTimestamp": "string",  
  "PartitionSerialList": [ "string" ],  
  "State": "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.

HapgArn (p. 19)

The ARN of the high-availability partition group.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hapg-[0-9a-f]{8}`

HapgSerial (p. 19)

The serial number of the high-availability partition group.

Type: String

Pattern: `[\w :+=. /\ \-]*`

HsmsLastActionFailed (p. 19)

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}`

HsmsPendingDeletion (p. 19)

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}`

HsmsPendingRegistration (p. 19)

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}`

Label (p. 19)

The label for the high-availability partition group.

Type: String

Pattern: `[a-zA-Z0-9_.-]{1,64}`

LastModifiedTimestamp (p. 19)

The date and time the high-availability partition group was last modified.

Type: String

Pattern: `\d*`

PartitionSerialList (p. 19)

The list of partition serial numbers that belong to the high-availability partition group.

Type: Array of strings

Pattern: `\d{6,12}`

State (p. 19)

The state of the high-availability partition group.

Type: String

Valid Values: `READY` | `UPDATING` | `DEGRADED`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 55).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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- [AWS SDK for .NET](#)
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- [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](#)

DescribeHsm

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Retrieves information about an HSM. You can identify the HSM by its ARN or its serial number.

Request Syntax

```
{  
  "HsmArn": "string",  
  "HsmSerialNumber": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

HsmArn (p. 22)

The ARN of the HSM. Either the `HsmArn` or the `SerialNumber` parameter must be specified.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*:[0-9]{12}:hsm-[0-9a-f]{8}`

Required: No

HsmSerialNumber (p. 22)

The serial number of the HSM. Either the `HsmArn` or the `HsmSerialNumber` parameter must be specified.

Type: String

Pattern: `\d{1,16}`

Required: No

Response Syntax

```
{  
  "AvailabilityZone": "string",  
  "EniId": "string",  
  "EniIp": "string",  
  "HsmArn": "string",  
  "HsmType": "string",  
  "IamRoleArn": "string",  
  "Partitions": [ "string" ],  
  "SerialNumber": "string",  
  "ServerCertLastUpdated": "string",  
  "ServerCertUri": "string",  
  "SoftwareVersion": "string",  
  "SshKeyLastUpdated": "string",  
}
```

```
"SshPublicKey": "string",  
"Status": "string",  
"StatusDetails": "string",  
"SubnetId": "string",  
"SubscriptionEndDate": "string",  
"SubscriptionStartDate": "string",  
"SubscriptionType": "string",  
"VendorName": "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.

AvailabilityZone (p. 22)

The Availability Zone that the HSM is in.

Type: String

Pattern: [a-zA-Z0-9\-\]*

EniId (p. 22)

The identifier of the elastic network interface (ENI) attached to the HSM.

Type: String

Pattern: eni-[0-9a-f]{8}

EniIp (p. 22)

The IP address assigned to the HSM's ENI.

Type: String

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

HsmArn (p. 22)

The ARN of the HSM.

Type: String

Pattern: arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}

HsmType (p. 22)

The HSM model type.

Type: String

Pattern: [\w :+=./\-\]*

IamRoleArn (p. 22)

The ARN of the IAM role assigned to the HSM.

Type: String

Pattern: arn:aws(-iso)?:iam:[0-9]{12}:role/[a-zA-Z0-9_+=,.\-\@]{1,64}

Partitions (p. 22)

The list of partitions on the HSM.

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9-]*:[0-9]{12}:hsm-[0-9a-f]{8}/partition-[0-9]{6,12}`

SerialNumber (p. 22)

The serial number of the HSM.

Type: String

Pattern: `\d{1,16}`

ServerCertLastUpdated (p. 22)

The date and time that the server certificate was last updated.

Type: String

Pattern: `\d*`

ServerCertUri (p. 22)

The URI of the certificate server.

Type: String

Pattern: `[\w :+=. /\-]*`

SoftwareVersion (p. 22)

The HSM software version.

Type: String

Pattern: `[\w :+=. /\-]*`

SshKeyLastUpdated (p. 22)

The date and time that the SSH key was last updated.

Type: String

Pattern: `\d*`

SshPublicKey (p. 22)

The public SSH key.

Type: String

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

Status (p. 22)

The status of the HSM.

Type: String

Valid Values: `PENDING | RUNNING | UPDATING | SUSPENDED | TERMINATING | TERMINATED | DEGRADED`

StatusDetails (p. 22)

Contains additional information about the status of the HSM.

Type: String

Pattern: [\w : += . / \ -] *

[SubnetId \(p. 22\)](#)

The identifier of the subnet that the HSM is in.

Type: String

Pattern: subnet-[0-9a-f] { 8 }

[SubscriptionEndDate \(p. 22\)](#)

The subscription end date.

Type: String

Pattern: \d*

[SubscriptionStartDate \(p. 22\)](#)

The subscription start date.

Type: String

Pattern: \d*

[SubscriptionType \(p. 22\)](#)

Specifies the type of subscription for the HSM.

- **PRODUCTION** - The HSM is being used in a production environment.
- **TRIAL** - The HSM is being used in a product trial.

Type: String

Valid Values: `PRODUCTION`

[VendorName \(p. 22\)](#)

The name of the HSM vendor.

Type: String

Pattern: [\w : += . / \ -] *

[VpcId \(p. 22\)](#)

The identifier of the VPC that the HSM is in.

Type: String

Pattern: vpc-[0-9a-f] { 8 }

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

DescribeLunaClient

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Retrieves information about an HSM client.

Request Syntax

```
{  
  "CertificateFingerprint": "string",  
  "ClientArn": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

CertificateFingerprint (p. 27)

The certificate fingerprint.

Type: String

Pattern: ([0-9a-fA-F][0-9a-fA-F]){15}[0-9a-fA-F][0-9a-fA-F]

Required: No

ClientArn (p. 27)

The ARN of the client.

Type: String

Pattern: arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*:[0-9]{12}:client-[0-9a-f]{8}

Required: No

Response Syntax

```
{  
  "Certificate": "string",  
  "CertificateFingerprint": "string",  
  "ClientArn": "string",  
  "Label": "string",  
  "LastModifiedTimestamp": "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.

Certificate (p. 27)

The certificate installed on the HSMs used by this client.

Type: String

Length Constraints: Minimum length of 600. Maximum length of 2400.

Pattern: `[\w :+=.\n-]*`

CertificateFingerprint (p. 27)

The certificate fingerprint.

Type: String

Pattern: `([0-9a-fA-F][0-9a-fA-F]){15}[0-9a-fA-F][0-9a-fA-F]`

ClientArn (p. 27)

The ARN of the client.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9-]*:[0-9]{12}:client-[0-9a-f]{8}`

Label (p. 27)

The label of the client.

Type: String

Pattern: `[a-zA-Z0-9_.-]{1,64}`

LastModifiedTimestamp (p. 27)

The date and time the client was last modified.

Type: String

Pattern: `\d*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

GetConfig

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Gets the configuration files necessary to connect to all high availability partition groups the client is associated with.

Request Syntax

```
{  
  "ClientArn": "string",  
  "ClientVersion": "string",  
  "HapgList": [ "string" ]  
}
```

Request Parameters

The request accepts the following data in JSON format.

ClientArn (p. 30)

The ARN of the client.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*:]{12}:client-[0-9a-f]{8}`

Required: Yes

ClientVersion (p. 30)

The client version.

Type: String

Valid Values: `5.1` | `5.3`

Required: Yes

HapgList (p. 30)

A list of ARNs that identify the high-availability partition groups that are associated with the client.

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*:]{12}:hapg-[0-9a-f]{8}`

Required: Yes

Response Syntax

```
{  
  "ConfigCred": "string",  
}
```

```
"ConfigFile": "string",  
"ConfigType": "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.

ConfigCred (p. 30)

The certificate file containing the server.pem files of the HSMs.

Type: String

Pattern: [\w :+=. /\ \-] *

ConfigFile (p. 30)

The chrystoki.conf configuration file.

Type: String

Pattern: [\w :+=. /\ \-] *

ConfigType (p. 30)

The type of credentials.

Type: String

Pattern: [\w :+=. /\ \-] *

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ListAvailableZones

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Lists the Availability Zones that have available AWS CloudHSM capacity.

Response Syntax

```
{
  "AZList": [ "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.

AZList (p. 33)

The list of Availability Zones that have available AWS CloudHSM capacity.

Type: Array of strings

Pattern: [a-zA-Z0-9\-]*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ListHapgs

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Lists the high-availability partition groups for the account.

This operation supports pagination with the use of the `NextToken` member. If more results are available, the `NextToken` member of the response contains a token that you pass in the next call to `ListHapgs` to retrieve the next set of items.

Request Syntax

```
{
  "NextToken": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

`NextToken` (p. 35)

The `NextToken` value from a previous call to `ListHapgs`. Pass null if this is the first call.

Type: String

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

Required: No

Response Syntax

```
{
  "HapgList": [ "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.

`HapgList` (p. 35)

The list of high-availability partition groups.

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9-]*:[0-9]{12}:hapg-[0-9a-f]{8}`

[NextToken \(p. 35\)](#)

If not null, more results are available. Pass this value to `ListHapgs` to retrieve the next set of items.

Type: String

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ListHsms

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Retrieves the identifiers of all of the HSMs provisioned for the current customer.

This operation supports pagination with the use of the `NextToken` member. If more results are available, the `NextToken` member of the response contains a token that you pass in the next call to `ListHsms` to retrieve the next set of items.

Request Syntax

```
{
  "NextToken": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

`NextToken` (p. 37)

The `NextToken` value from a previous call to `ListHsms`. Pass null if this is the first call.

Type: String

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

Required: No

Response Syntax

```
{
  "HsmList": [ "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.

`HsmList` (p. 37)

The list of ARNs that identify the HSMs.

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9-]*:[0-9]{12}:hsm-[0-9a-f]{8}`

[NextToken \(p. 37\)](#)

If not null, more results are available. Pass this value to `ListHsms` to retrieve the next set of items.

Type: String

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ListLunaClients

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Lists all of the clients.

This operation supports pagination with the use of the `NextToken` member. If more results are available, the `NextToken` member of the response contains a token that you pass in the next call to `ListLunaClients` to retrieve the next set of items.

Request Syntax

```
{  
  "NextToken": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

`NextToken` (p. 39)

The `NextToken` value from a previous call to `ListLunaClients`. Pass null if this is the first call.

Type: String

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

Required: No

Response Syntax

```
{  
  "ClientList": [ "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.

`ClientList` (p. 39)

The list of clients.

Type: Array of strings

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9-]*:[0-9]{12}:client-[0-9a-f]{8}`

NextToken (p. 39)

If not null, more results are available. Pass this to `ListLunaClients` to retrieve the next set of items.

Type: String

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Returns a list of all tags for the specified AWS CloudHSM resource.

Request Syntax

```
{
  "ResourceArn": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

ResourceArn (p. 41)

The Amazon Resource Name (ARN) of the AWS CloudHSM resource.

Type: String

Pattern: [`\w :+=. / \ -`]*

Required: Yes

Response Syntax

```
{
  "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.

TagList (p. 41)

One or more tags.

Type: Array of [Tag \(p. 54\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ModifyHapg

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Modifies an existing high-availability partition group.

Request Syntax

```
{  
  "HapgArn": "string",  
  "Label": "string",  
  "PartitionSerialList": [ "string" ]  
}
```

Request Parameters

The request accepts the following data in JSON format.

HapgArn (p. 43)

The ARN of the high-availability partition group to modify.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hapg-[0-9a-f]{8}`

Required: Yes

Label (p. 43)

The new label for the high-availability partition group.

Type: String

Pattern: `[a-zA-Z0-9_.-]{1,64}`

Required: No

PartitionSerialList (p. 43)

The list of partition serial numbers to make members of the high-availability partition group.

Type: Array of strings

Pattern: `\d{6,12}`

Required: No

Response Syntax

```
{  
  "HapgArn": "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.

HapgArn (p. 43)

The ARN of the high-availability partition group.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*]:[0-9]{12}:hapg-[0-9a-f]{8}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 55).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ModifyHsm

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Modifies an HSM.

Important

This operation can result in the HSM being offline for up to 15 minutes while the AWS CloudHSM service is reconfigured. If you are modifying a production HSM, you should ensure that your AWS CloudHSM service is configured for high availability, and consider executing this operation during a maintenance window.

Request Syntax

```
{
  "EniIp": "string",
  "ExternalId": "string",
  "HsmArn": "string",
  "IamRoleArn": "string",
  "SubnetId": "string",
  "SyslogIp": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

EniIp (p. 45)

The new IP address for the elastic network interface (ENI) attached to the HSM.

If the HSM is moved to a different subnet, and an IP address is not specified, an IP address will be randomly chosen from the CIDR range of the new subnet.

Type: String

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

Required: No

ExternalId (p. 45)

The new external ID.

Type: String

Pattern: [\w :+=./-]*

Required: No

HsmArn (p. 45)

The ARN of the HSM to modify.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}`

Required: Yes

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

The new IAM role ARN.

Type: String

Pattern: `arn:aws(-iso)?:iam::[0-9]{12}:role/[a-zA-Z0-9_\+=,\.\\-@]{1,64}`

Required: No

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

The new identifier of the subnet that the HSM is in. The new subnet must be in the same Availability Zone as the current subnet.

Type: String

Pattern: `subnet-[0-9a-f]{8}`

Required: No

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

The new IP address for the syslog monitoring server. The AWS CloudHSM service only supports one syslog monitoring server.

Type: String

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

Required: No

Response Syntax

```
{
  "HsmArn": "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.

[HsmArn \(p. 46\)](#)

The ARN of the HSM.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:hsm-[0-9a-f]{8}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

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

ModifyLunaClient

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Modifies the certificate used by the client.

This action can potentially start a workflow to install the new certificate on the client's HSMs.

Request Syntax

```
{  
  "Certificate": "string",  
  "ClientArn": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

Certificate (p. 48)

The new certificate for the client.

Type: String

Length Constraints: Minimum length of 600. Maximum length of 2400.

Pattern: [\w :+=. / \n -] *

Required: Yes

ClientArn (p. 48)

The ARN of the client.

Type: String

Pattern: arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-\]*:[0-9]{12}:client-[0-9a-f]{8}

Required: Yes

Response Syntax

```
{  
  "ClientArn": "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.

ClientArn (p. 48)

The ARN of the client.

Type: String

Pattern: `arn:aws(-iso)?:cloudhsm:[a-zA-Z0-9\-*]:[0-9]{12}:client-[0-9a-f]{8}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

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](#)

RemoveTagsFromResource

This is documentation for **AWS CloudHSM Classic**. For more information, see [AWS CloudHSM Classic FAQs](#), the [AWS CloudHSM Classic User Guide](#), and the [AWS CloudHSM Classic API Reference](#).

For information about the current version of AWS CloudHSM, see [AWS CloudHSM](#), the [AWS CloudHSM User Guide](#), and the [AWS CloudHSM API Reference](#).

Removes one or more tags from the specified AWS CloudHSM resource.

To remove a tag, specify only the tag key to remove (not the value). To overwrite the value for an existing tag, use [AddTagsToResource \(p. 3\)](#).

Request Syntax

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

Request Parameters

The request accepts the following data in JSON format.

ResourceArn (p. 50)

The Amazon Resource Name (ARN) of the AWS CloudHSM resource.

Type: String

Pattern: `[\w :+=. /\-]*`

Required: Yes

TagKeyList (p. 50)

The tag key or keys to remove.

Specify only the tag key to remove (not the value). To overwrite the value for an existing tag, use [AddTagsToResource \(p. 3\)](#).

Type: Array of strings

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

Required: Yes

Response Syntax

```
{  
  "Status": "string"  
}
```

Response Elements

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

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

Status (p. 50)

The status of the operation.

Type: String

Pattern: `[\w :+=. /\-]*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 55\)](#).

CloudHsmInternalException

Indicates that an internal error occurred.

HTTP Status Code: 500

CloudHsmServiceException

Indicates that an exception occurred in the AWS CloudHSM service.

HTTP Status Code: 400

InvalidRequestException

Indicates that one or more of the request parameters are not valid.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [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 Amazon CloudHSM 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:

- [CreateHapgRequest \(p. 53\)](#)
- [Tag \(p. 54\)](#)

CreateHapgRequest

Contains the inputs for the [CreateHapgRequest](#) (p. 53) action.

Contents

Label

The label of the new high-availability partition group.

Type: String

Pattern: `[a-zA-Z0-9_.-]{1,64}`

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](#)

Tag

A key-value pair that identifies or specifies metadata about an AWS CloudHSM resource.

Contents

Key

The key of the tag.

Type: String

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

Required: Yes

Value

The value of the tag.

Type: String

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

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 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